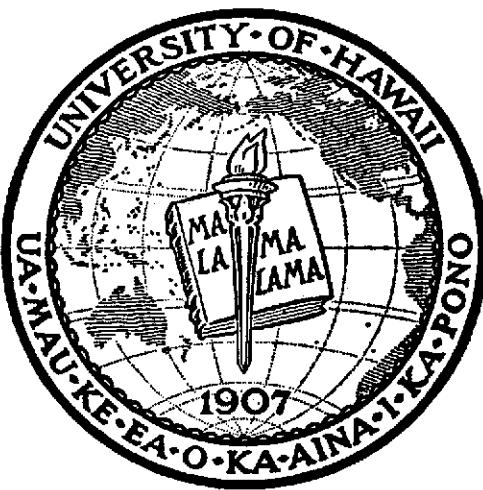


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ATLAS OF ZENITH AIRGLOW PLOTS

OBAINED AT

HALEAKALA, HAWAII

VOLUME 2. JANUARY 1965 to JANUARY 1969

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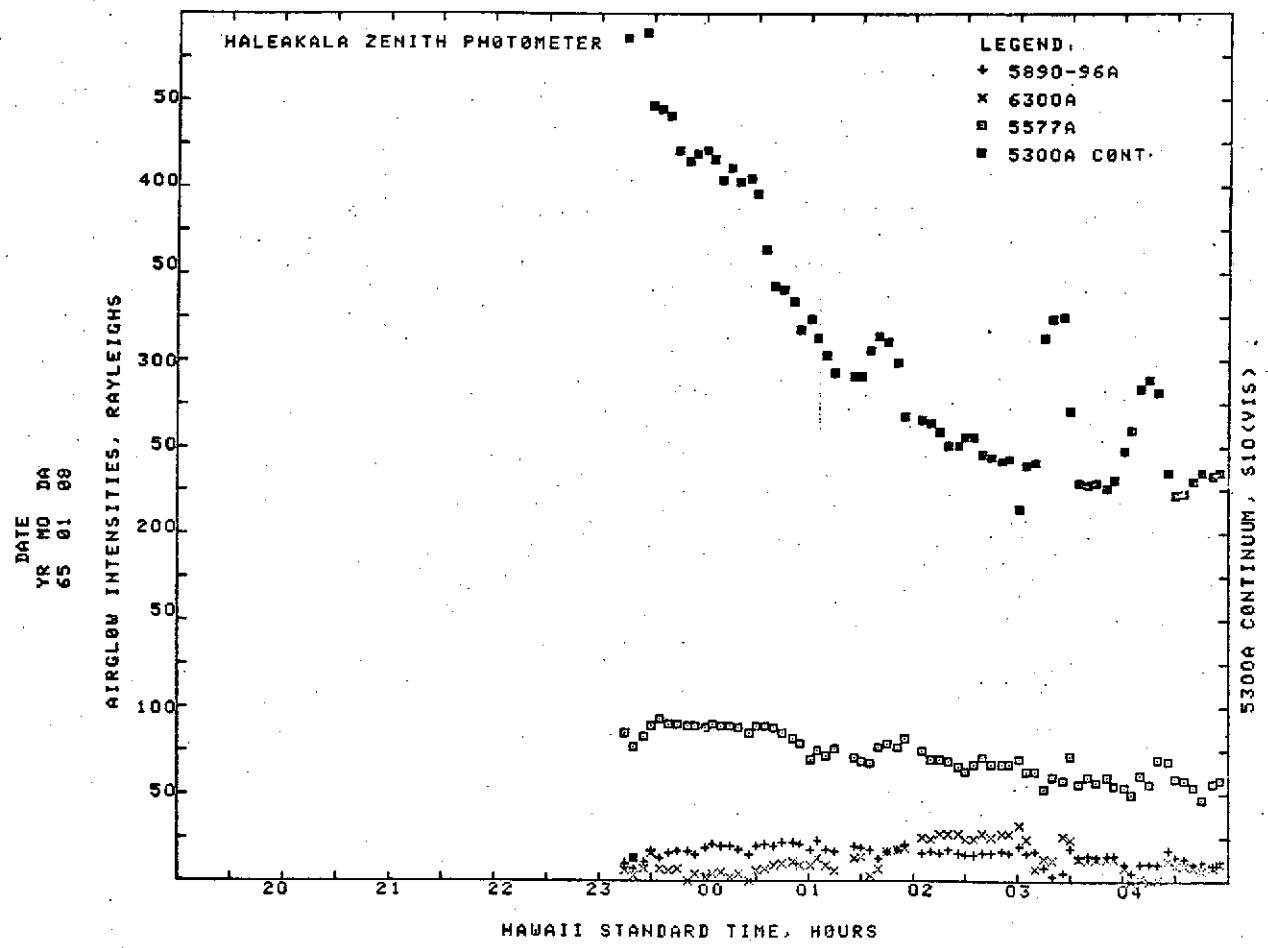
Volume 1. July 1961 to December 1964

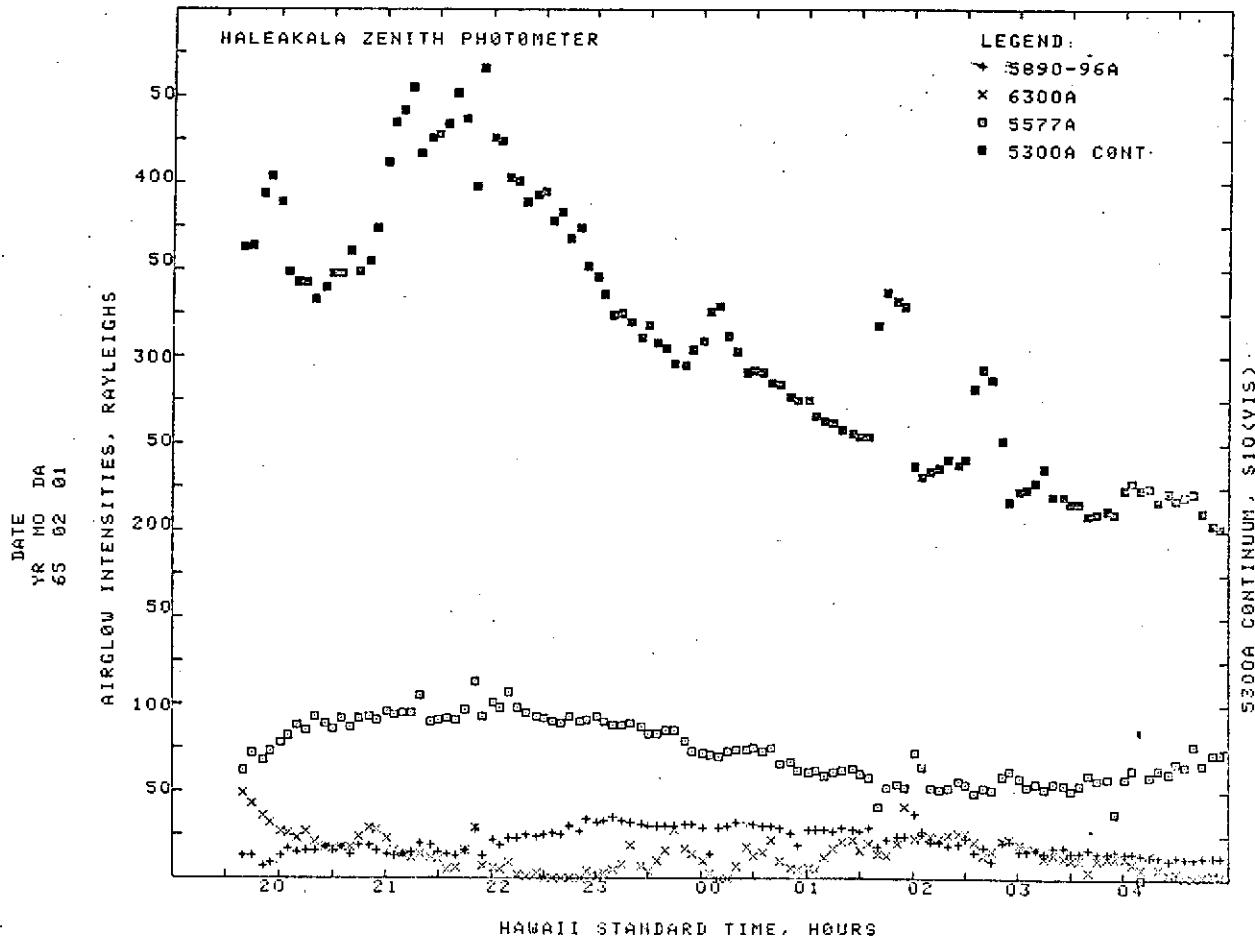
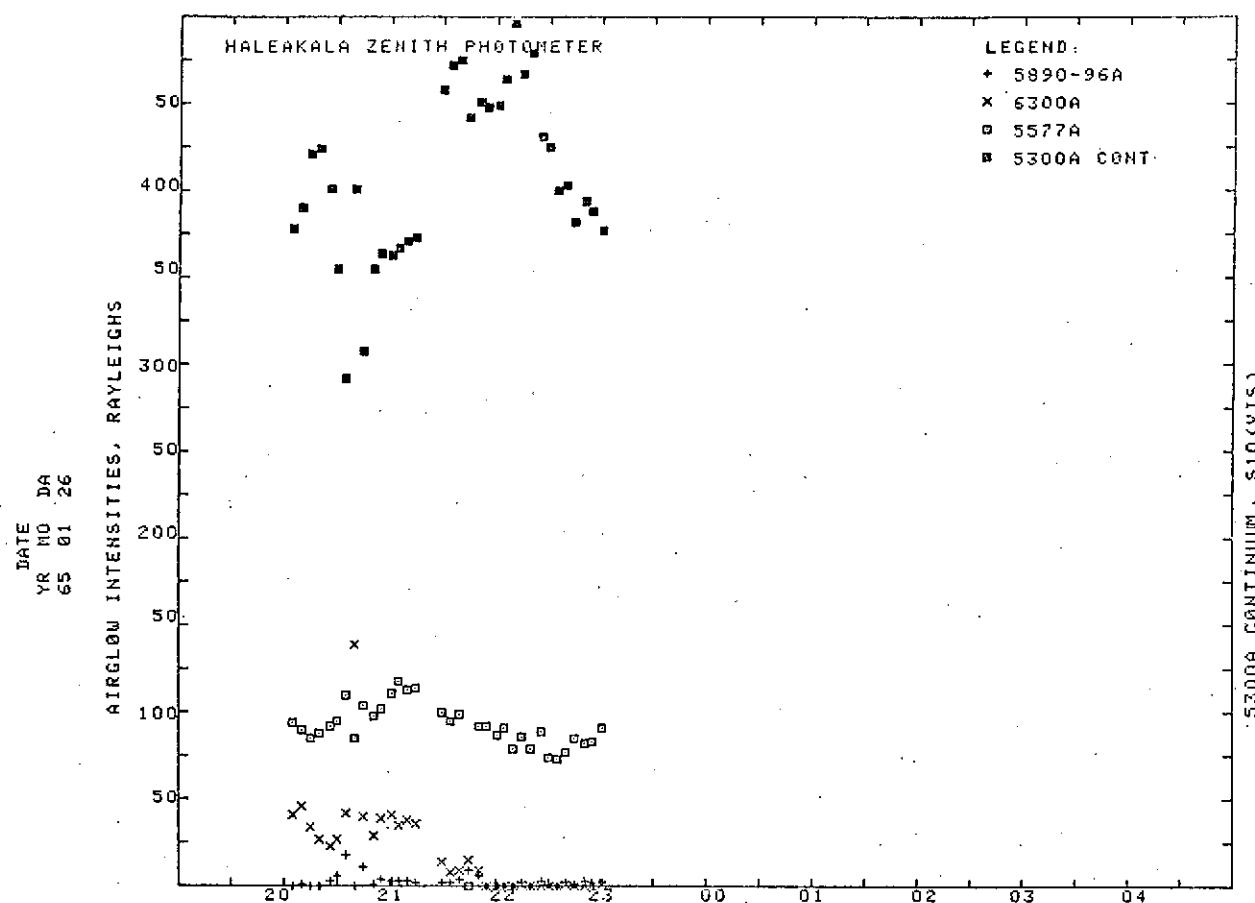
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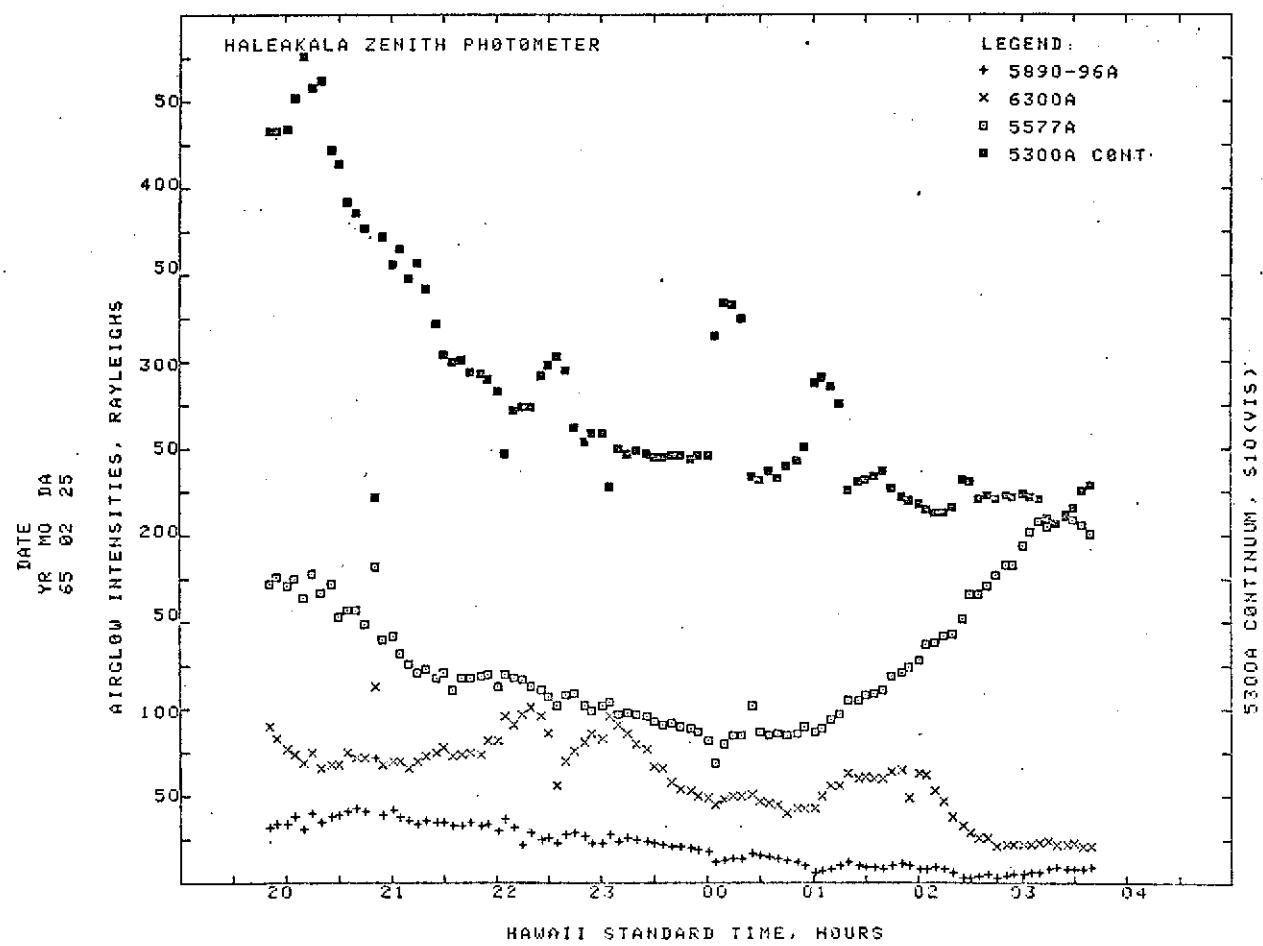
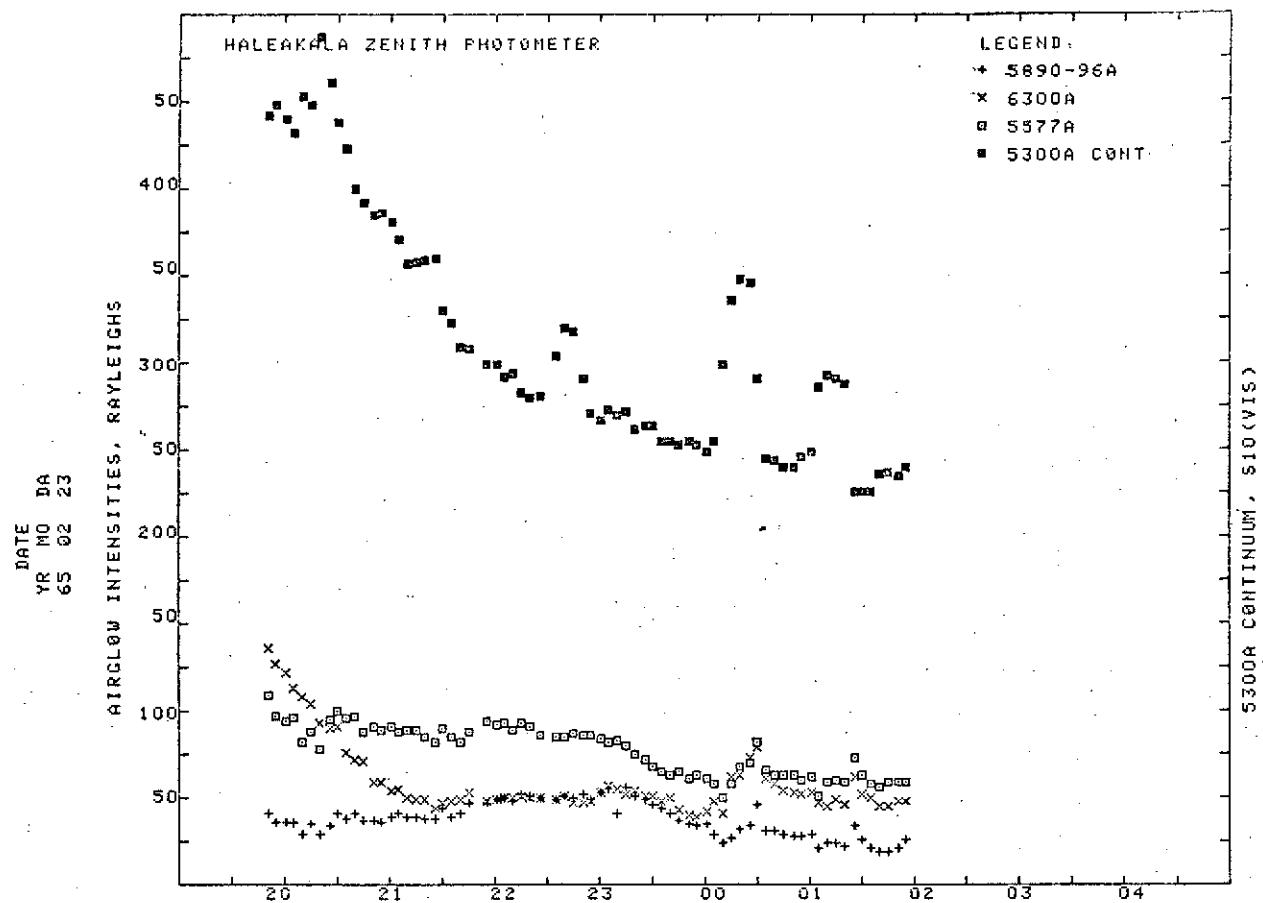
This Atlas presents zenith airglow intensities as a function of time as observed from Haleakala, Hawaii. Information concerning the location, instrumentation, and data reduction techniques is given in a separate volume: CATALOG AND DATA SUMMARY OF AIRGLOW OBSERVATIONS OBTAINED AT HALEAKALA, HAWAII.

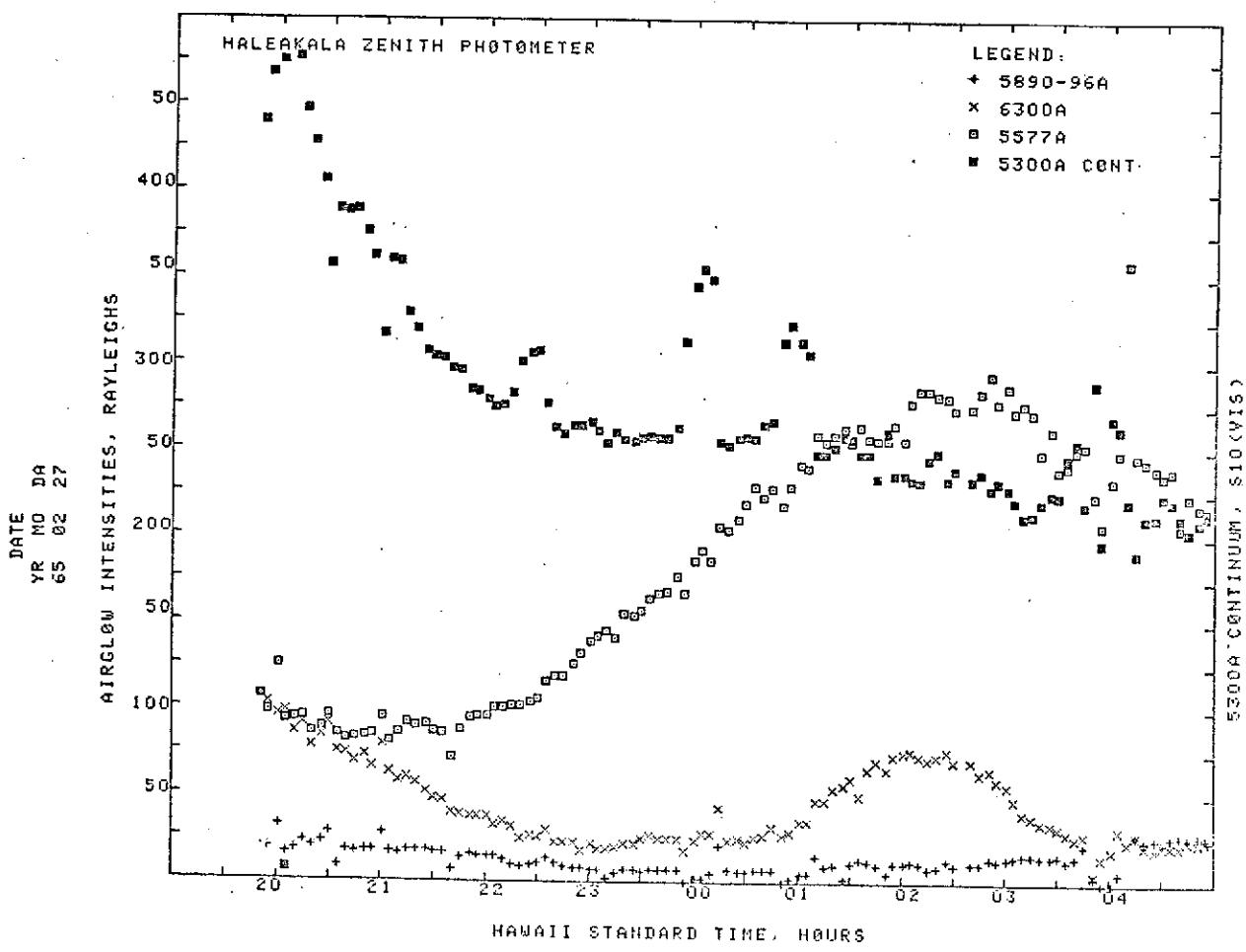
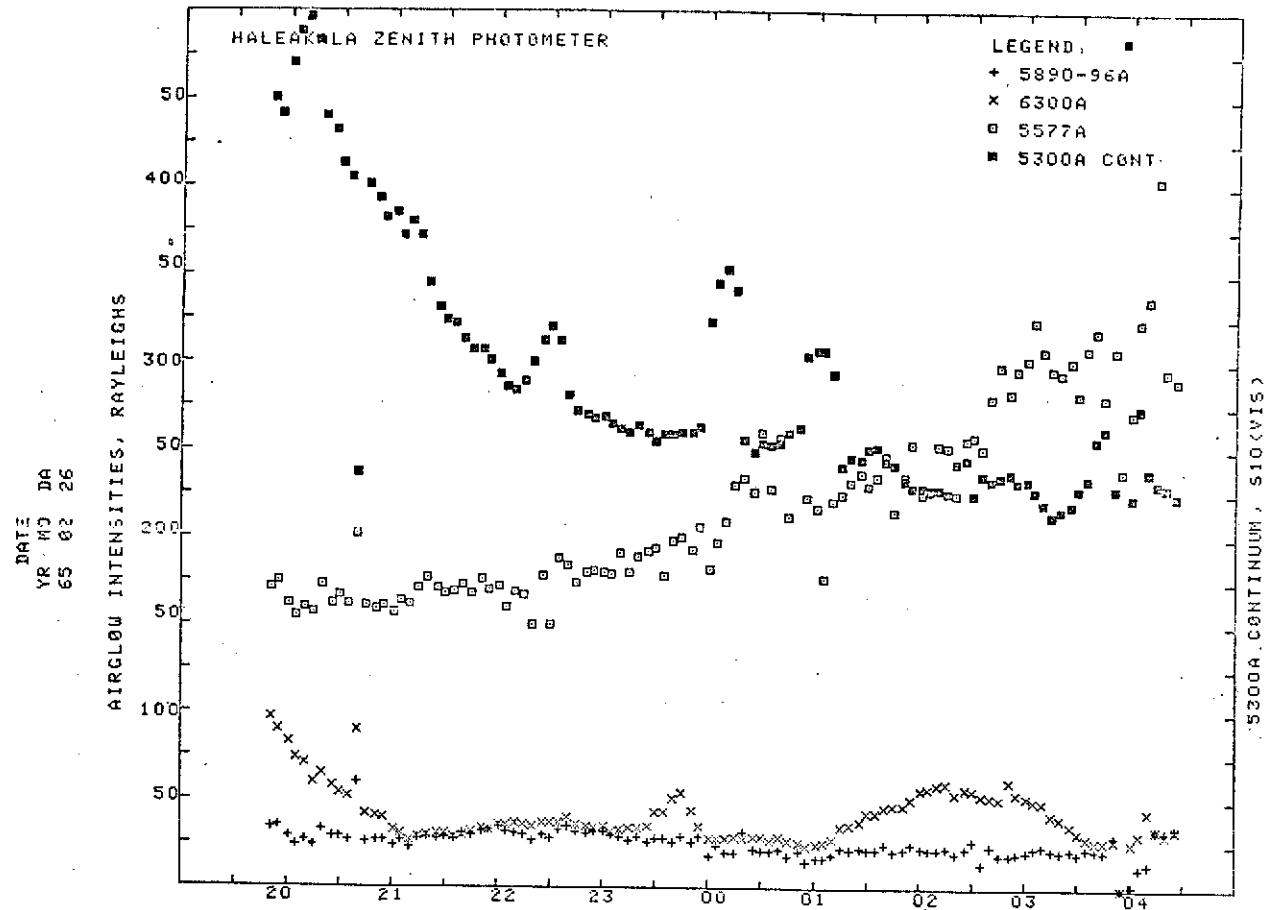
The following comments will assist in interpreting the plots:

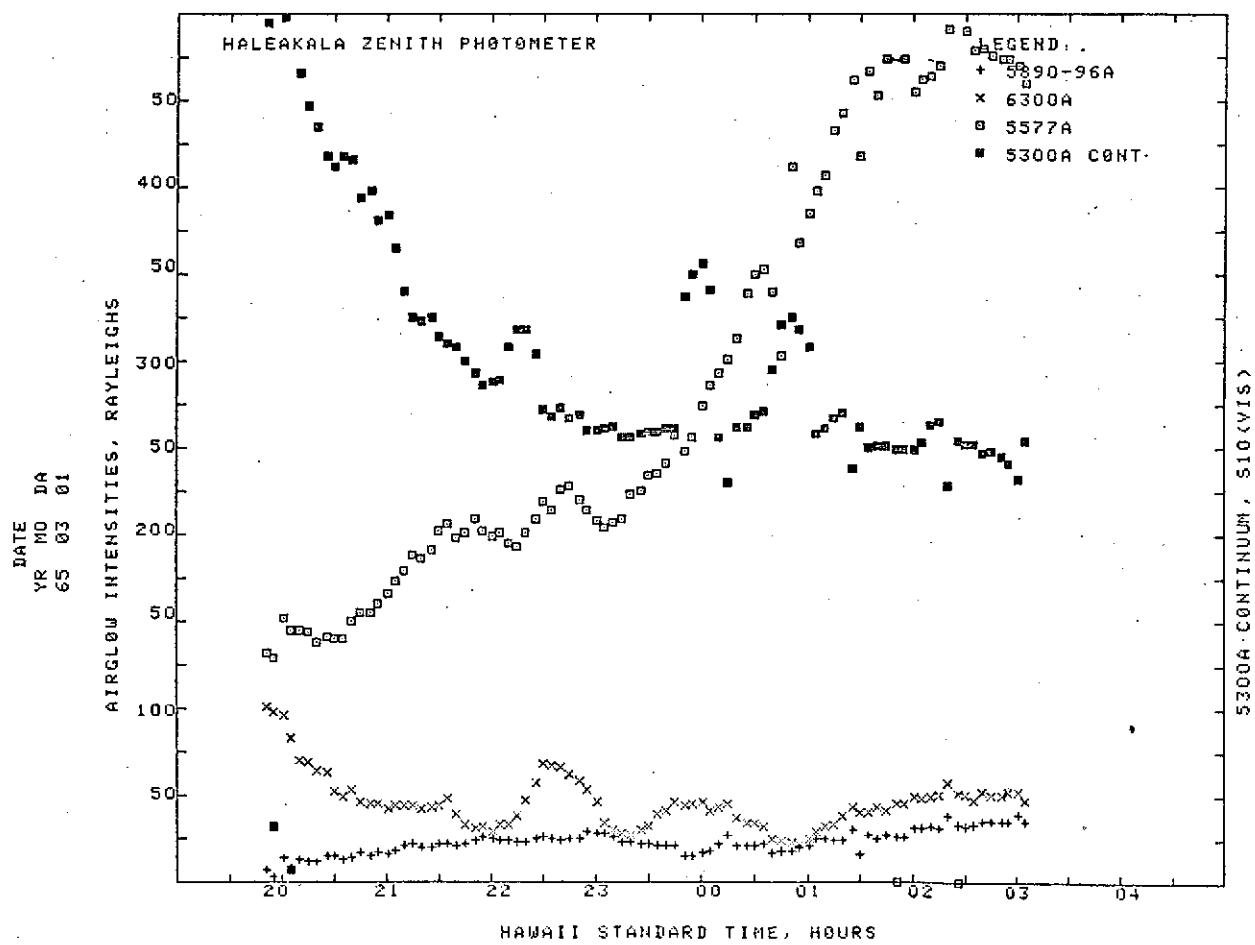
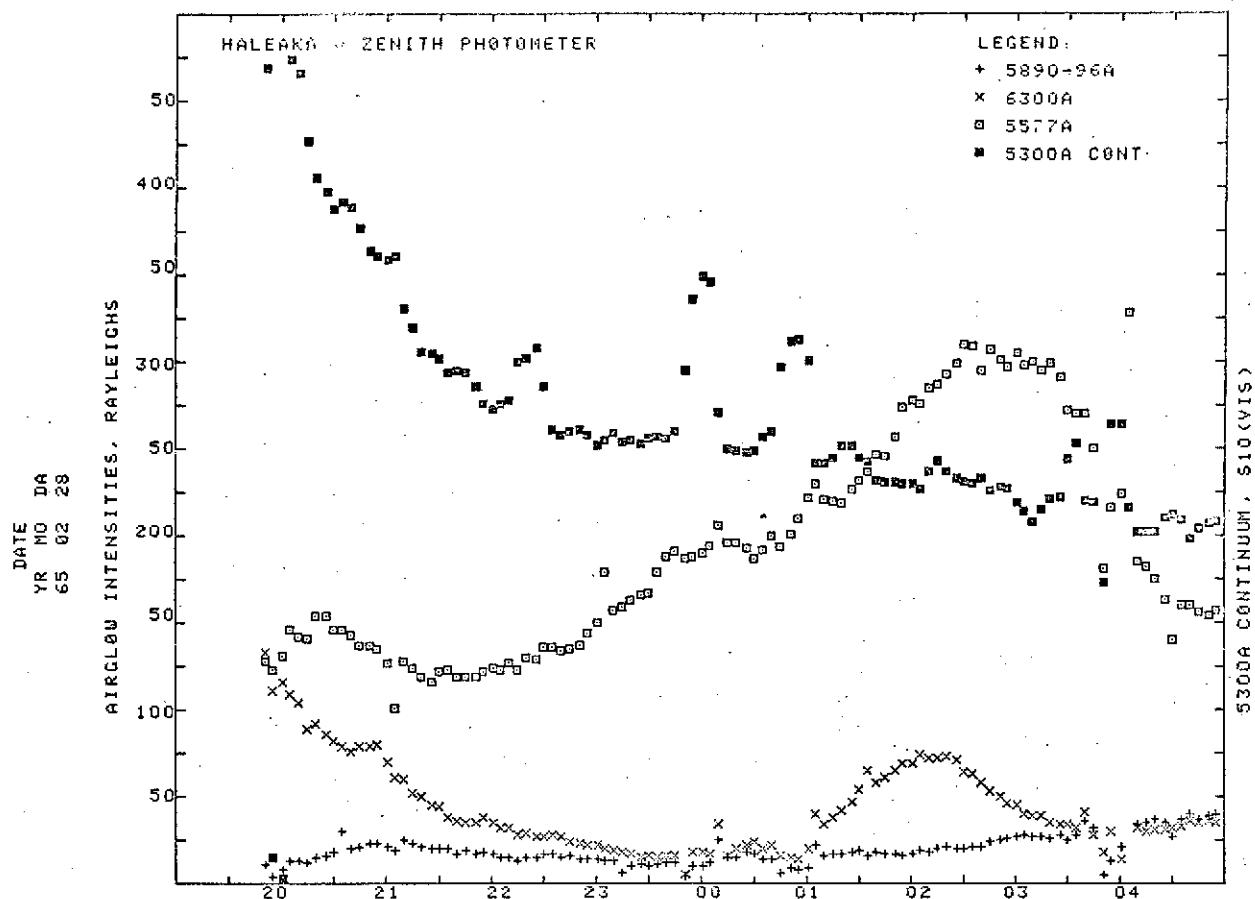
1. The date given on the left-hand margin is always the date of the beginning of the night. It is understood, of course, that the date changes at midnight.
2. The left-hand ordinate scale, in rayleighs, is to be associated with the atomic emissions at 6300, 5577, and 5890-96 A. The right-hand ordinate scale is to be associated with the continuum at 5300 A and runs from 0 to 500 $S_{10}^{(vis)}$ units. ($1 R/A = 227 S_{10}^{(vis)}$ at 5300 A)
3. Off-scale points are plotted by first subtracting 500; that is, the abscissa becomes 500 instead of zero.
4. A large contribution to the 5300 A continuum is the integrated starlight of the Milky Way, and the two crossings of the Milky Way can be easily seen on the plots. The star Arcturus also passes directly through the zenith at Haleakala and gives a strong deflection. See for example the plot for 61-09-05. One crossing of the Milky Way occurs at about 2115 HST (the peak is about $515 S_{10}$ units) and Arcturus appears at about 0300 HST. On each successive day the zenith passage of the Milky Way and Arcturus occur about 4 minutes earlier. Because of the method of data reduction, the calculated intensities of the airglow emissions are not very reliable during the passage of Arcturus.
5. Nights having less than two hours of observations have been omitted from this Atlas.

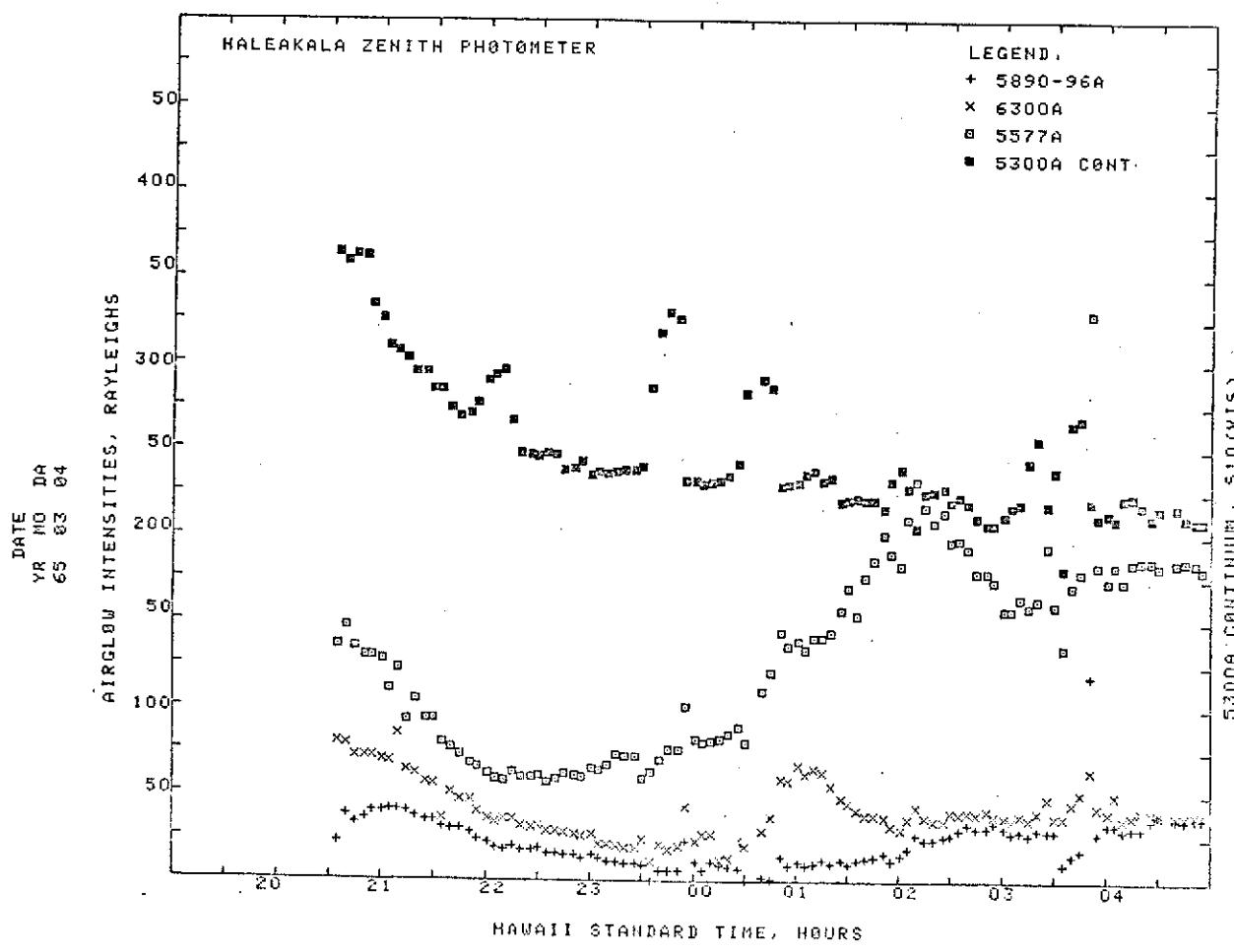
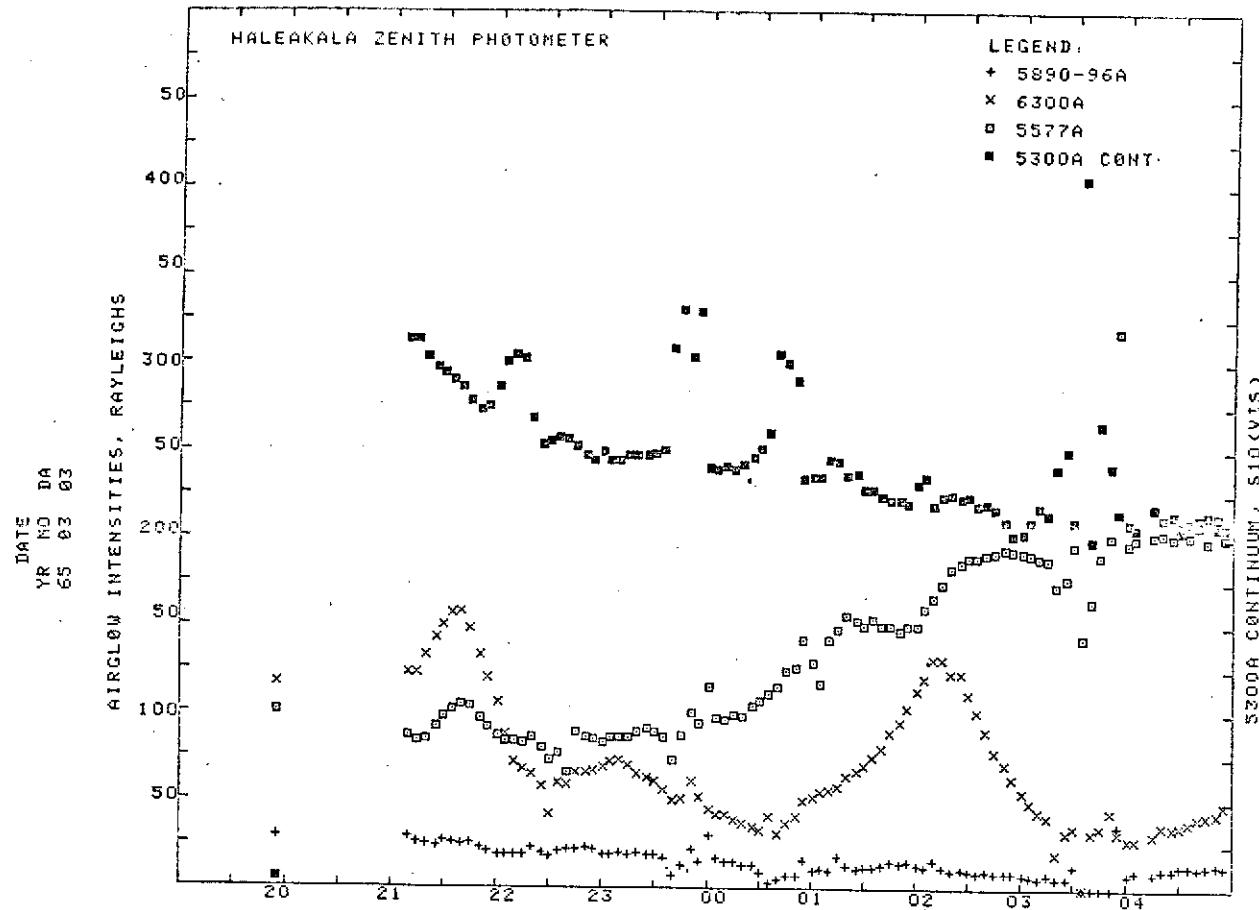


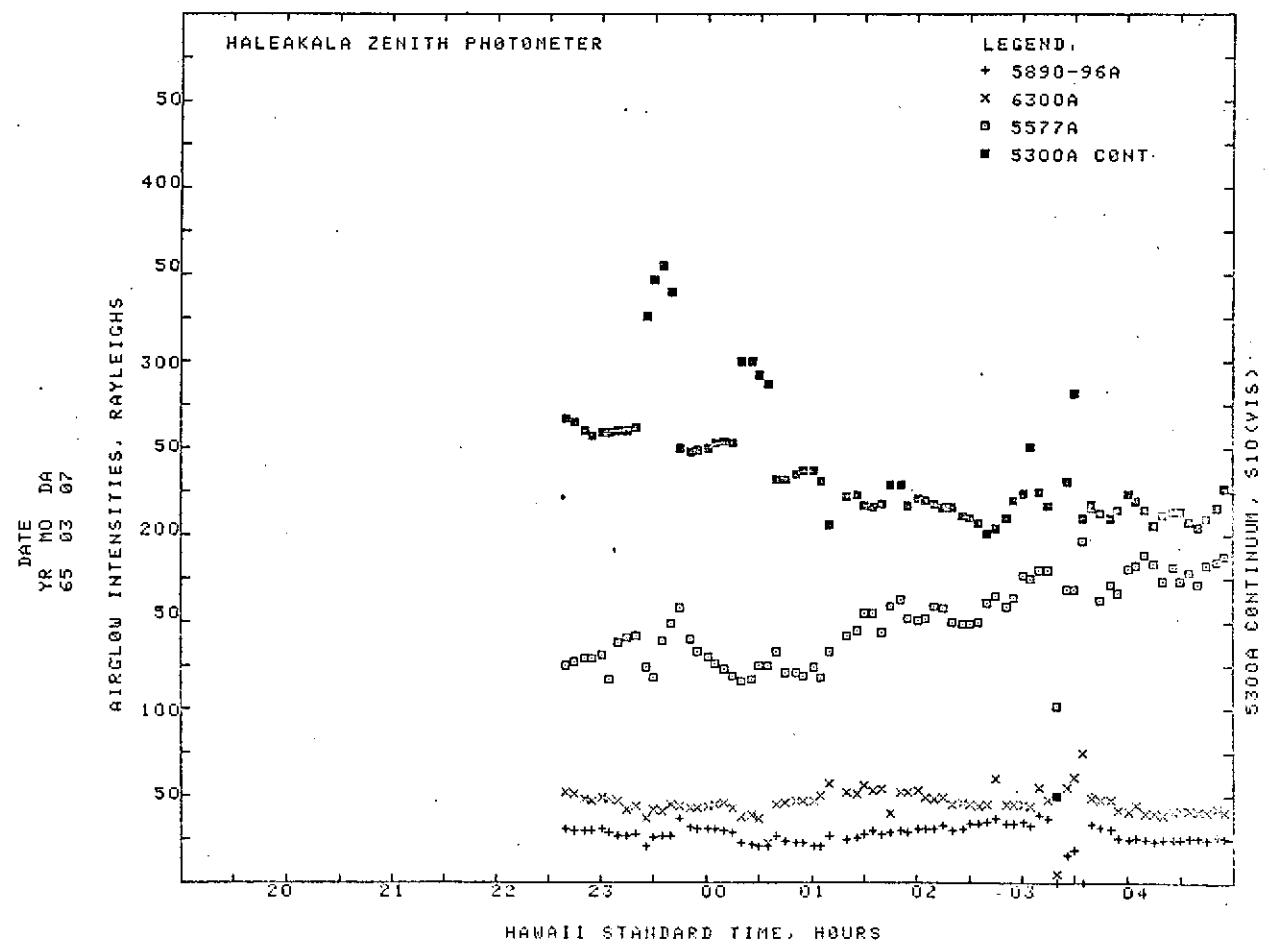
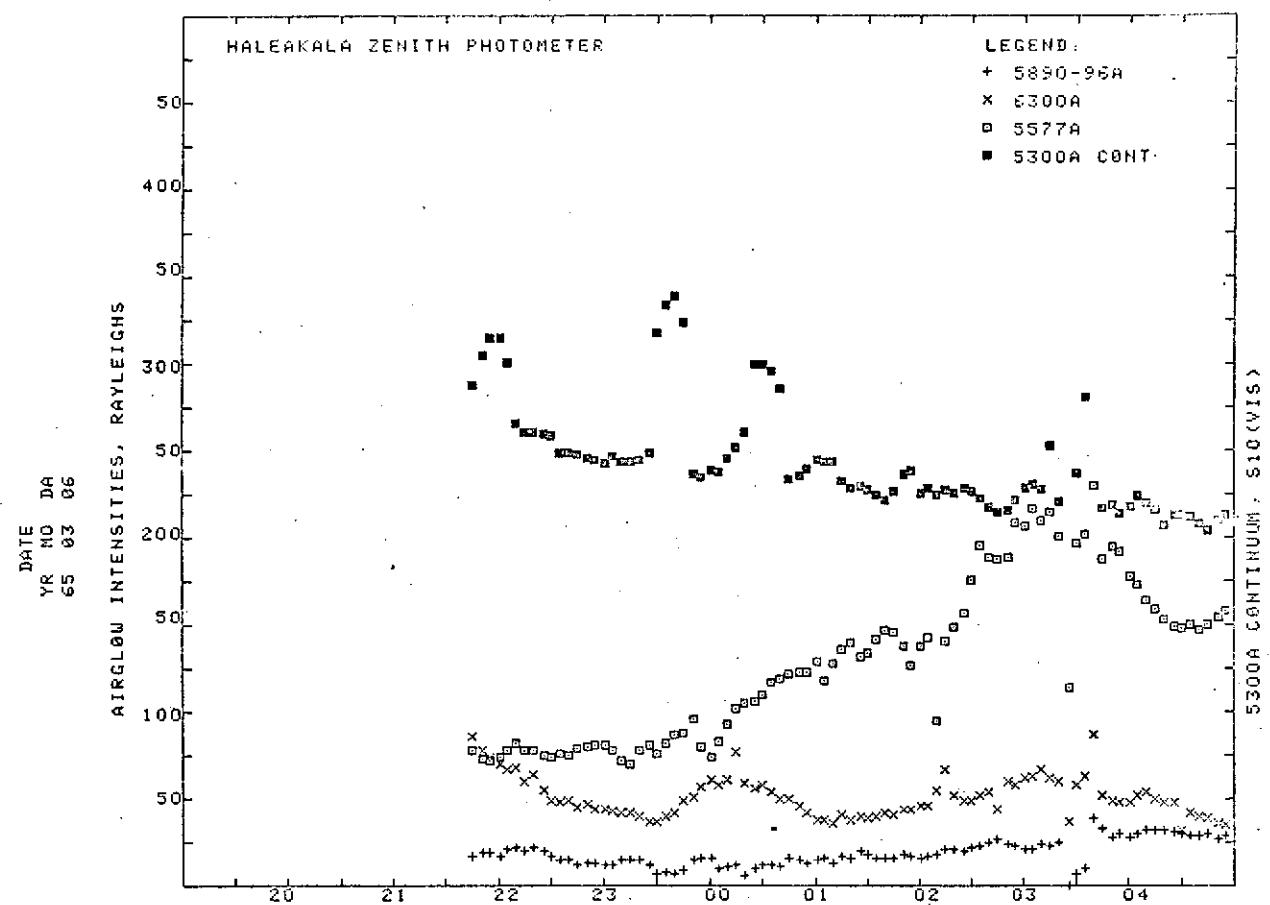


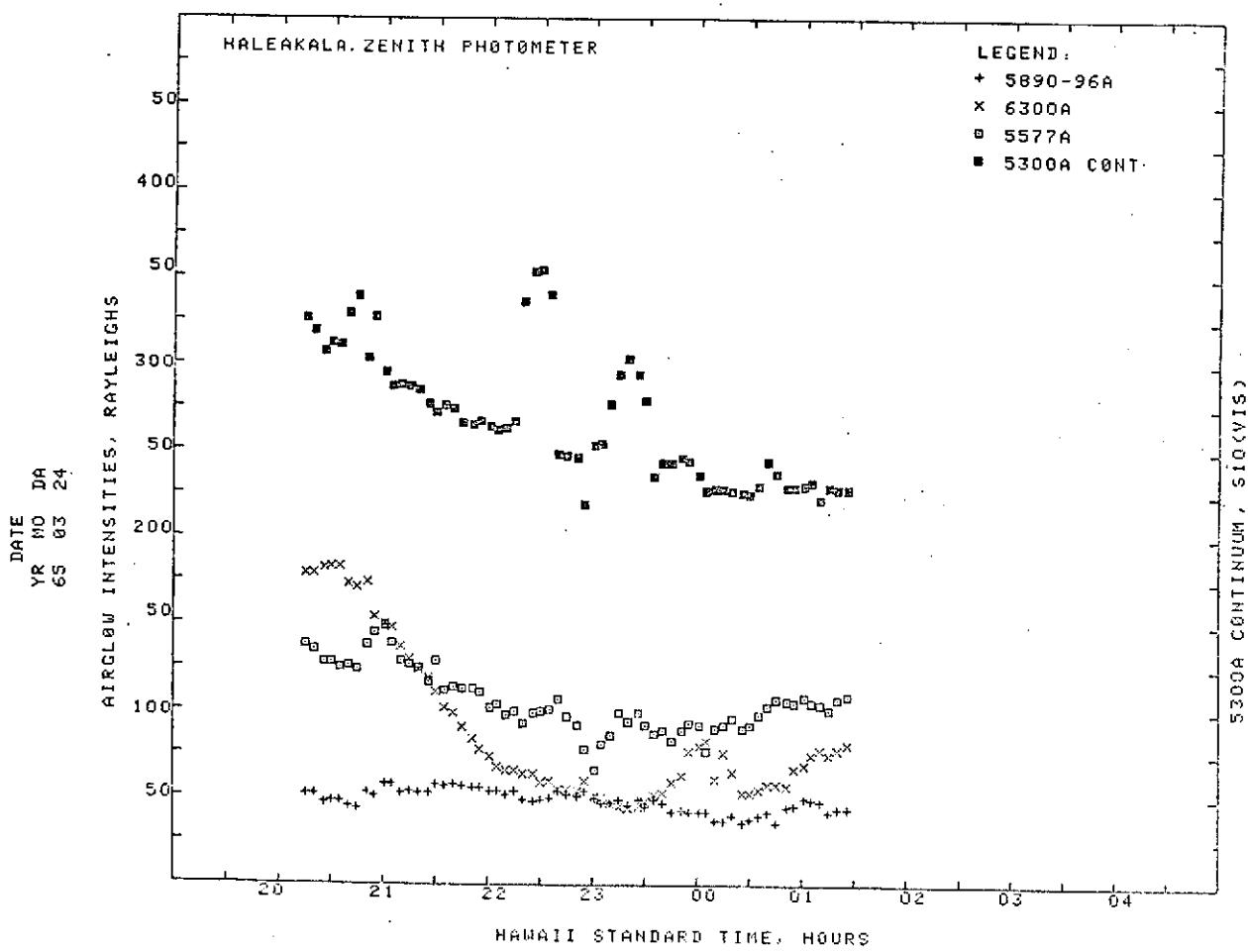
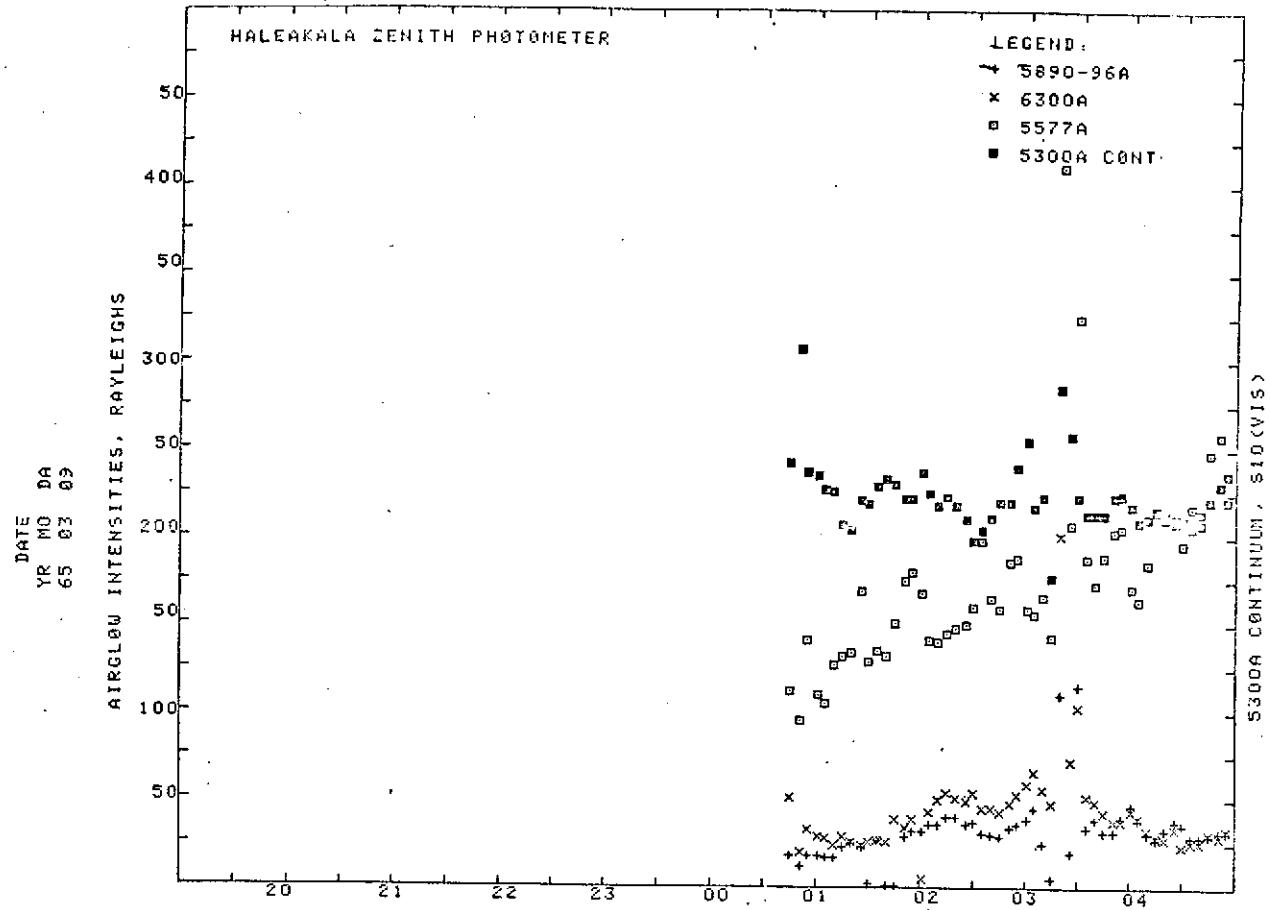


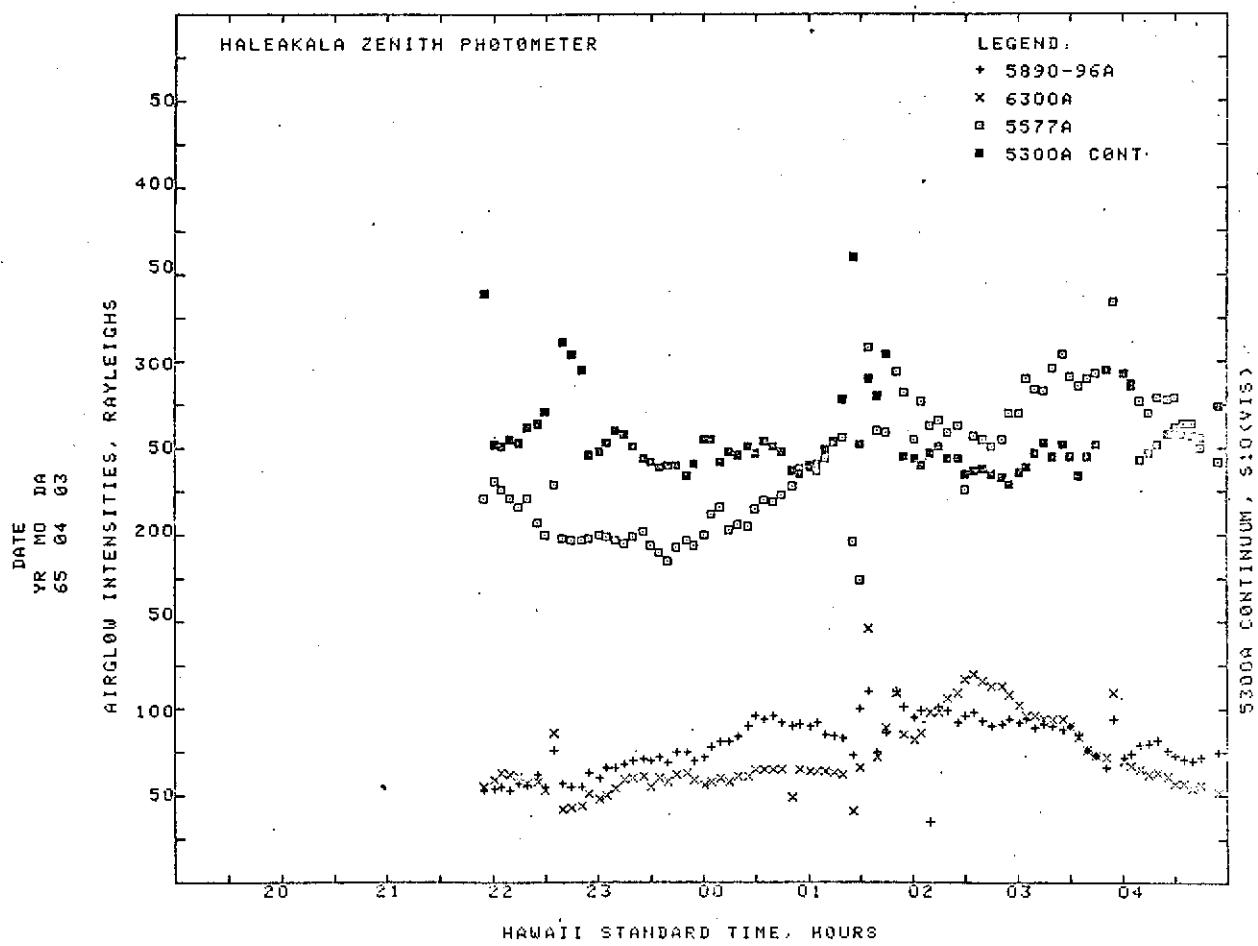
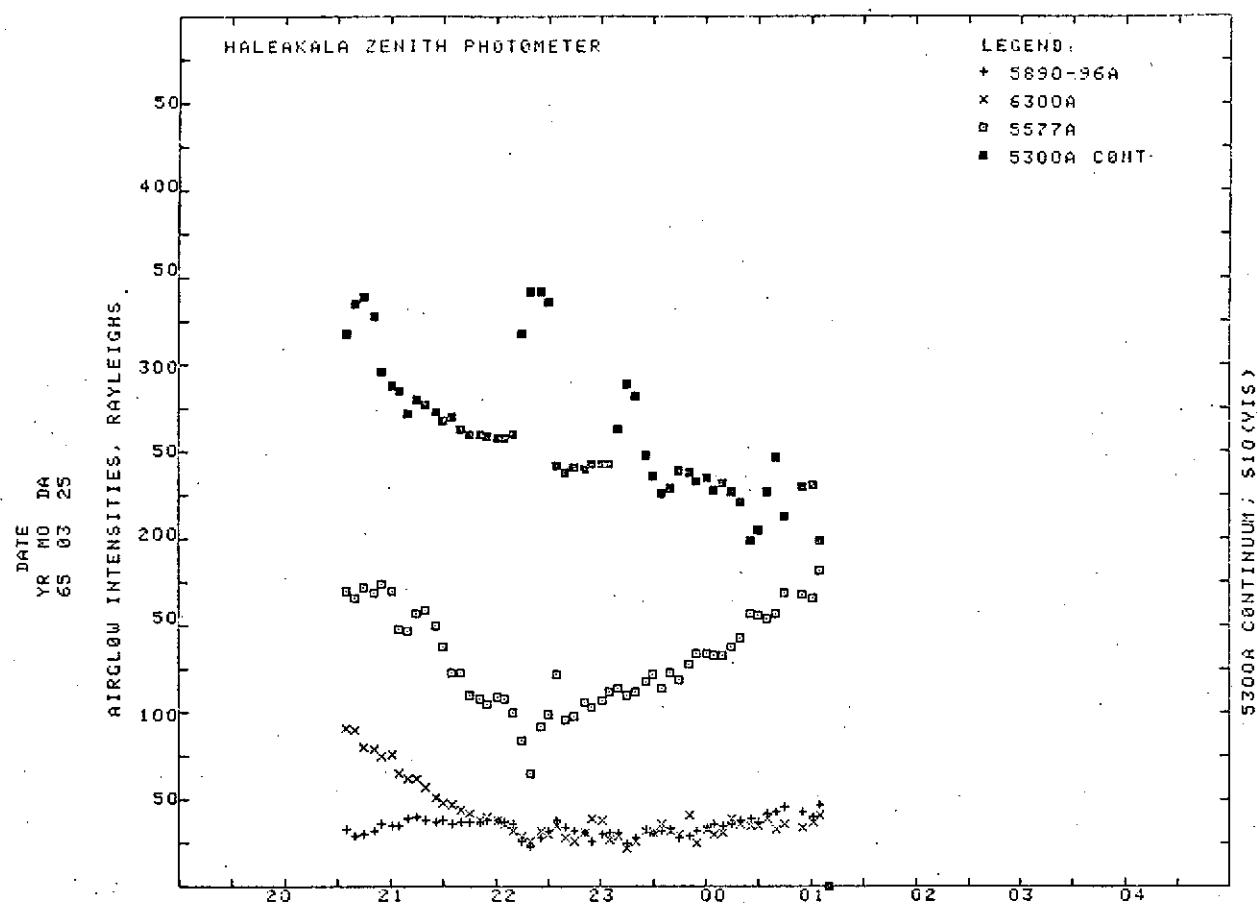


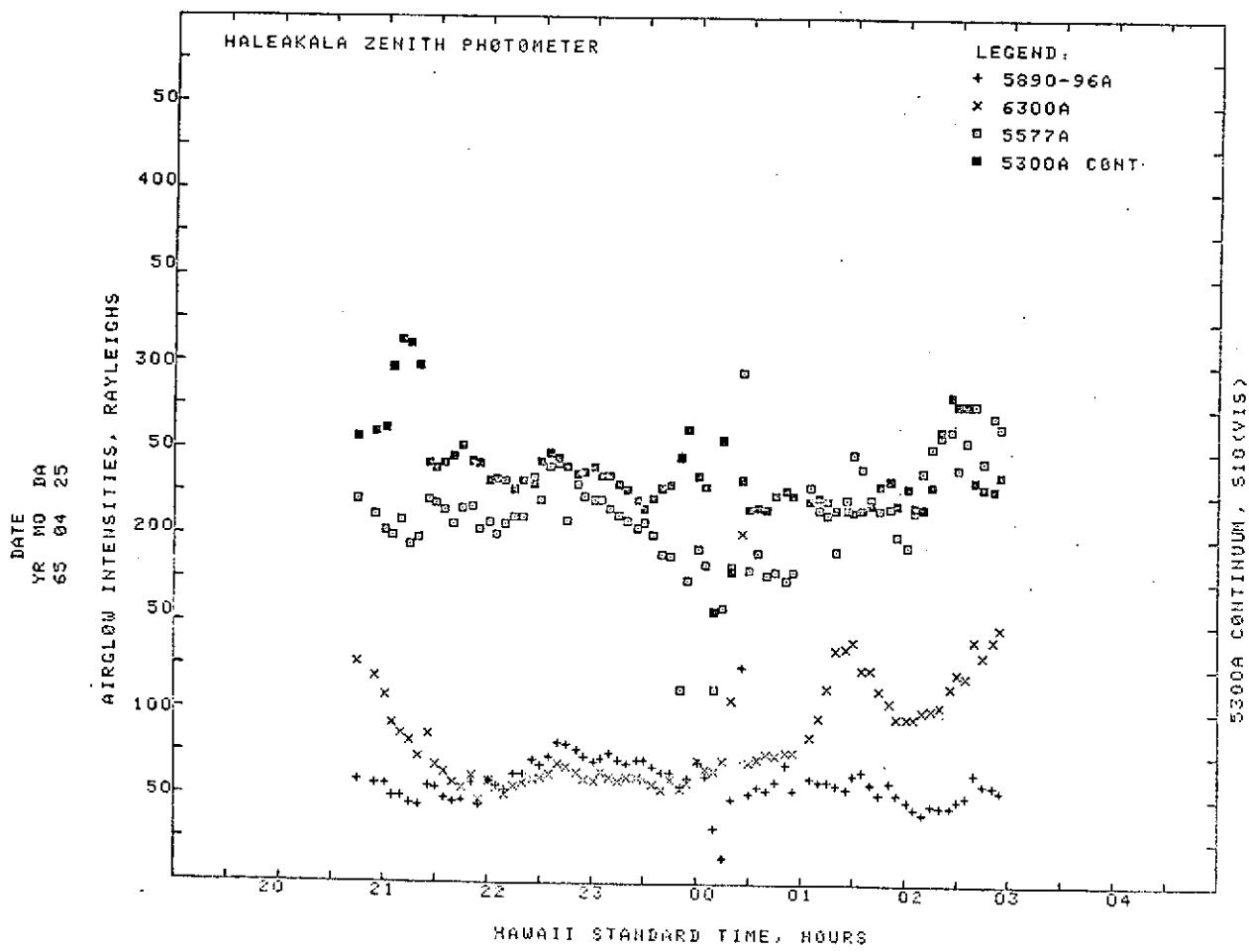
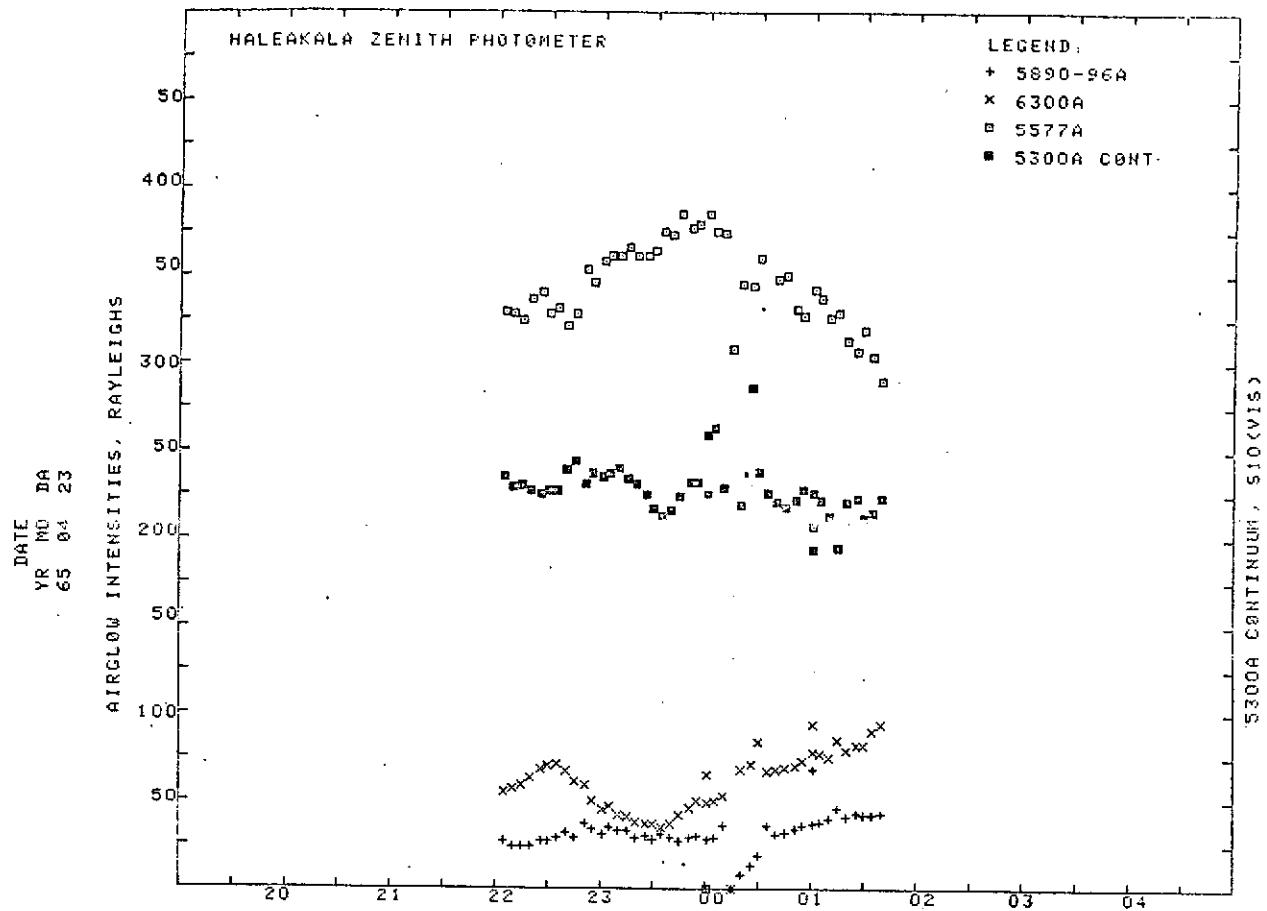


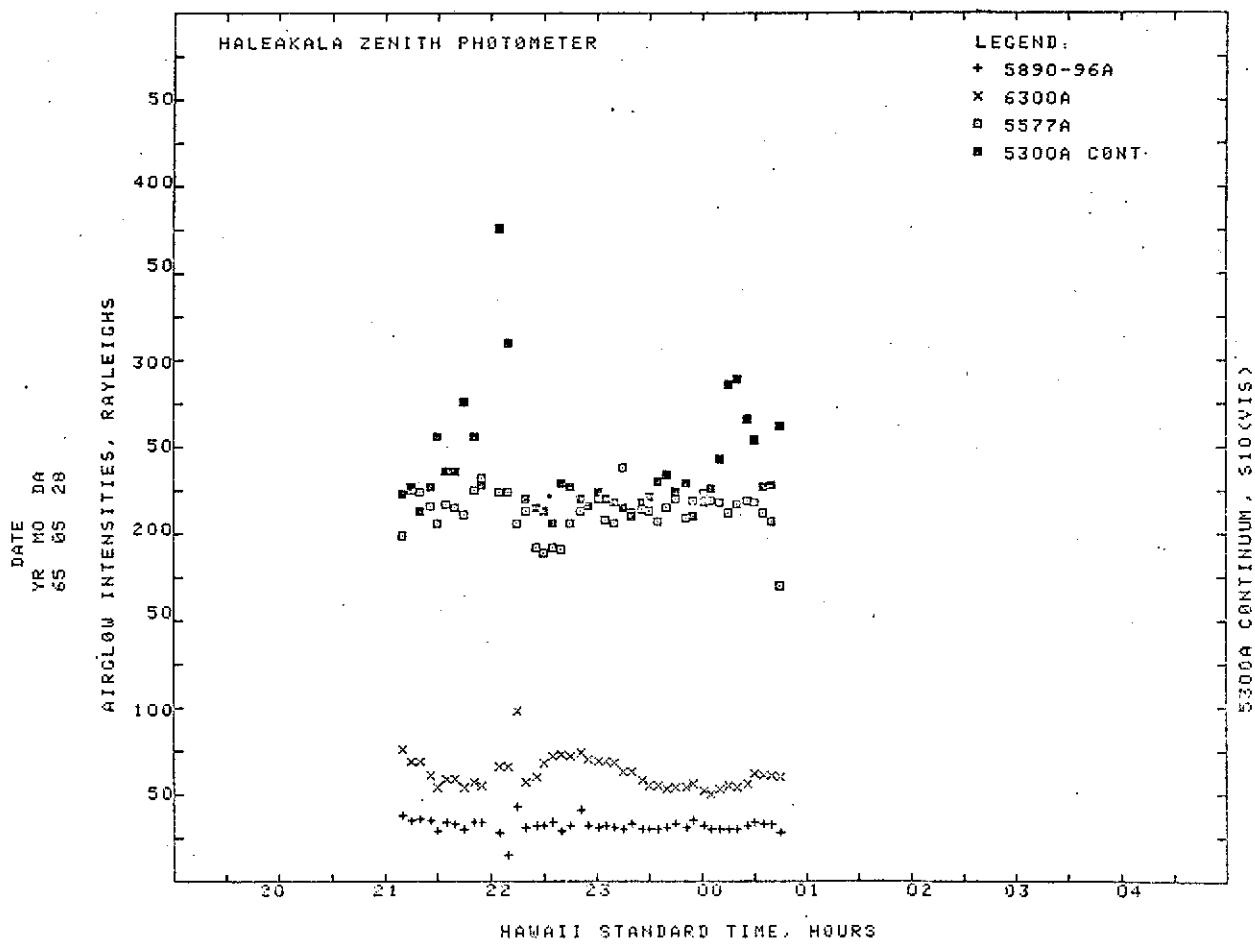
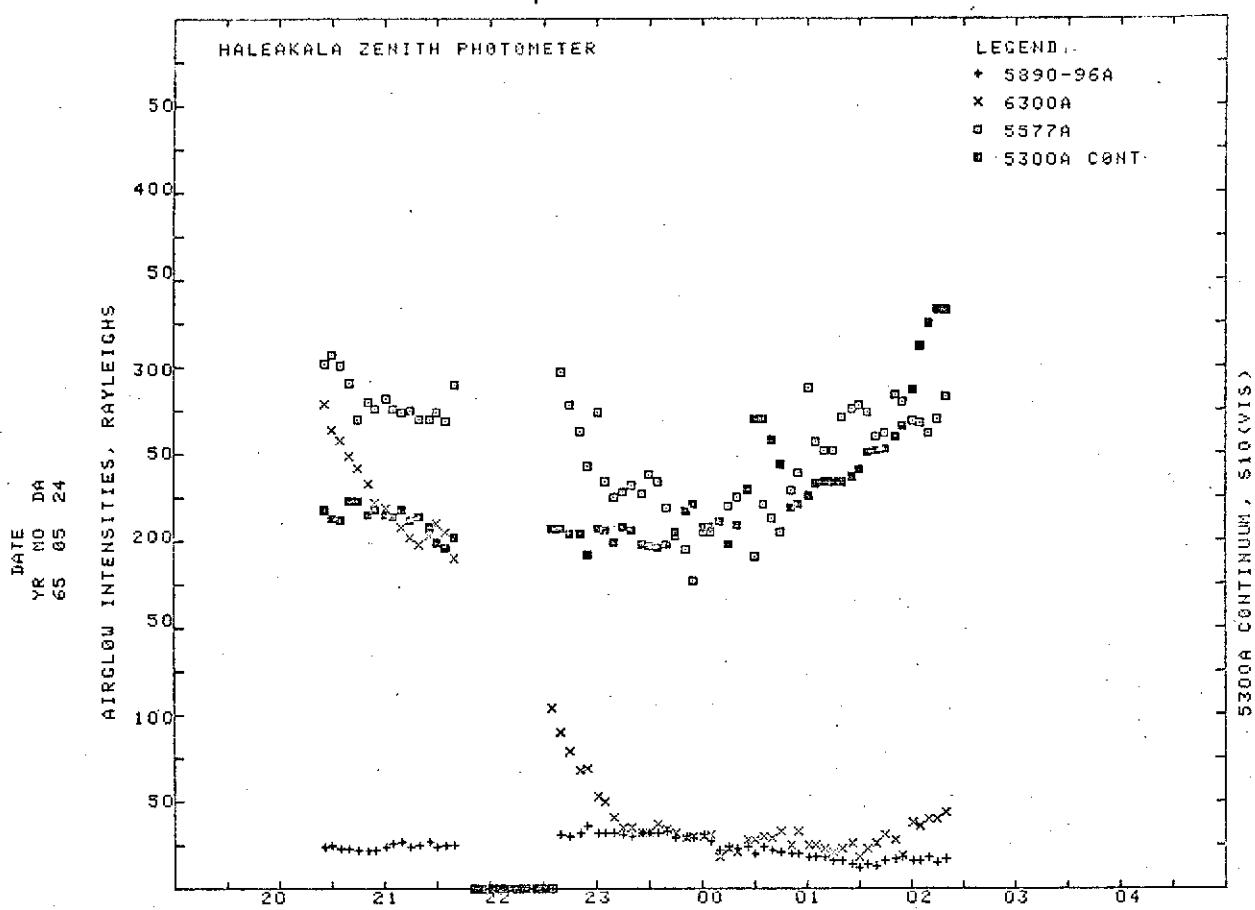


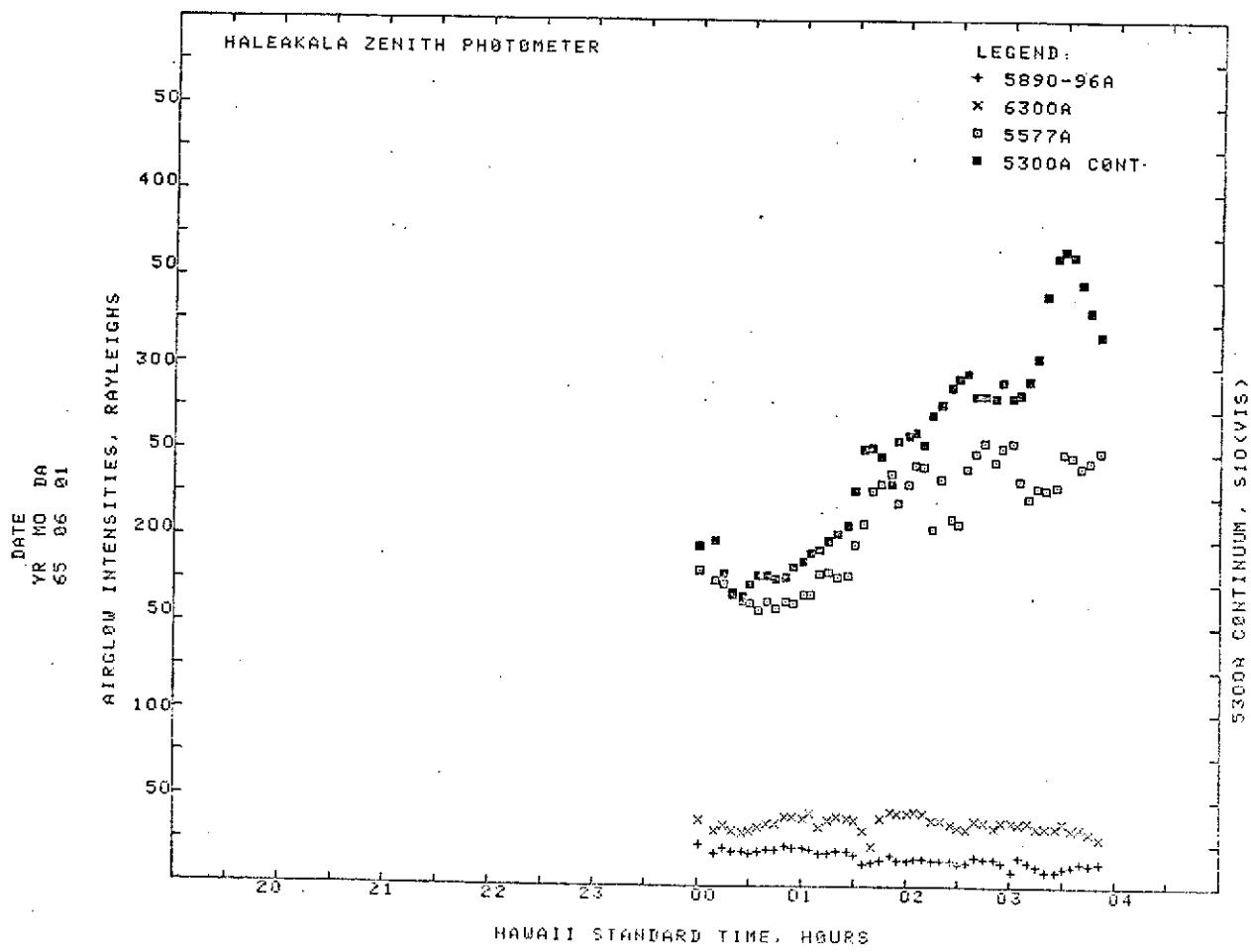
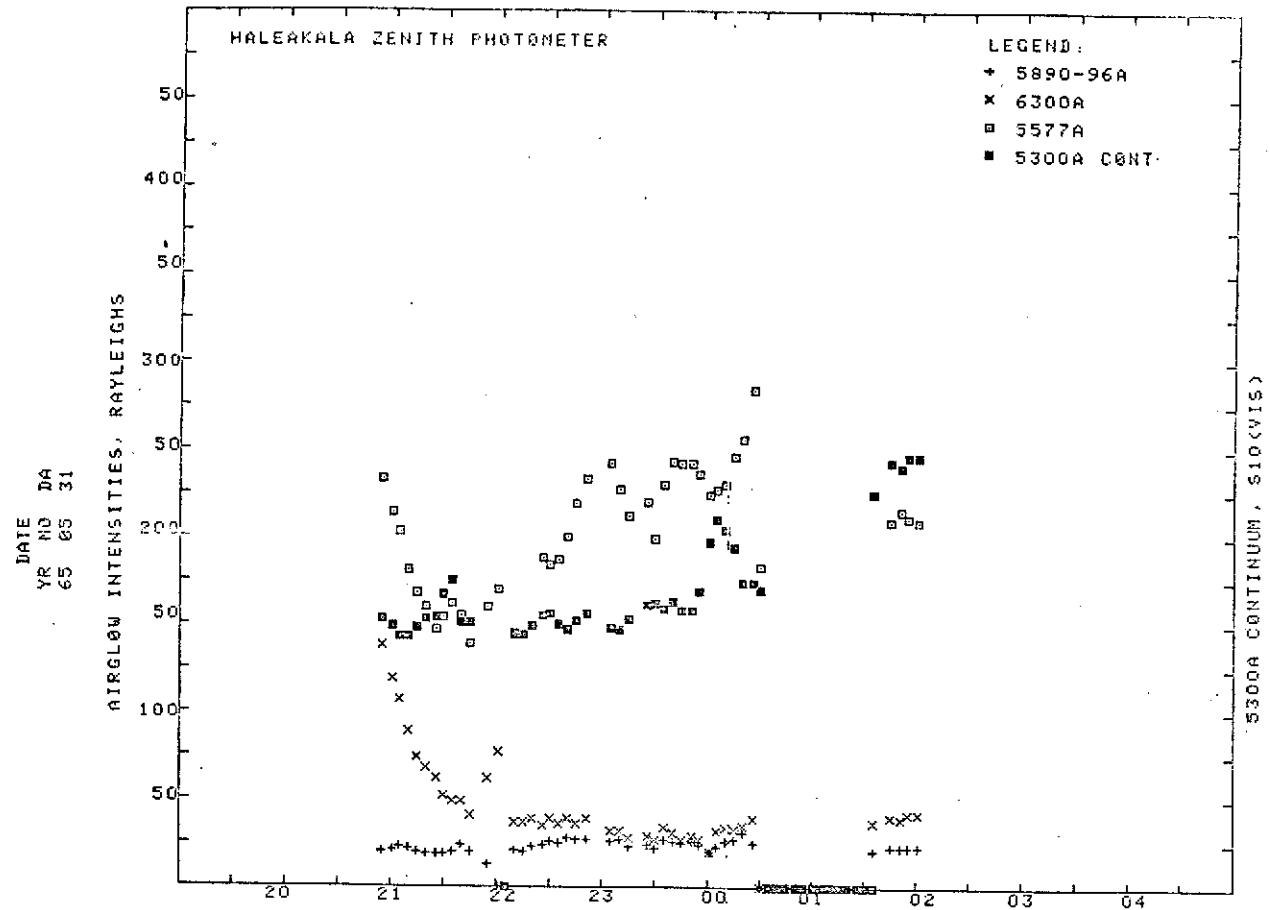


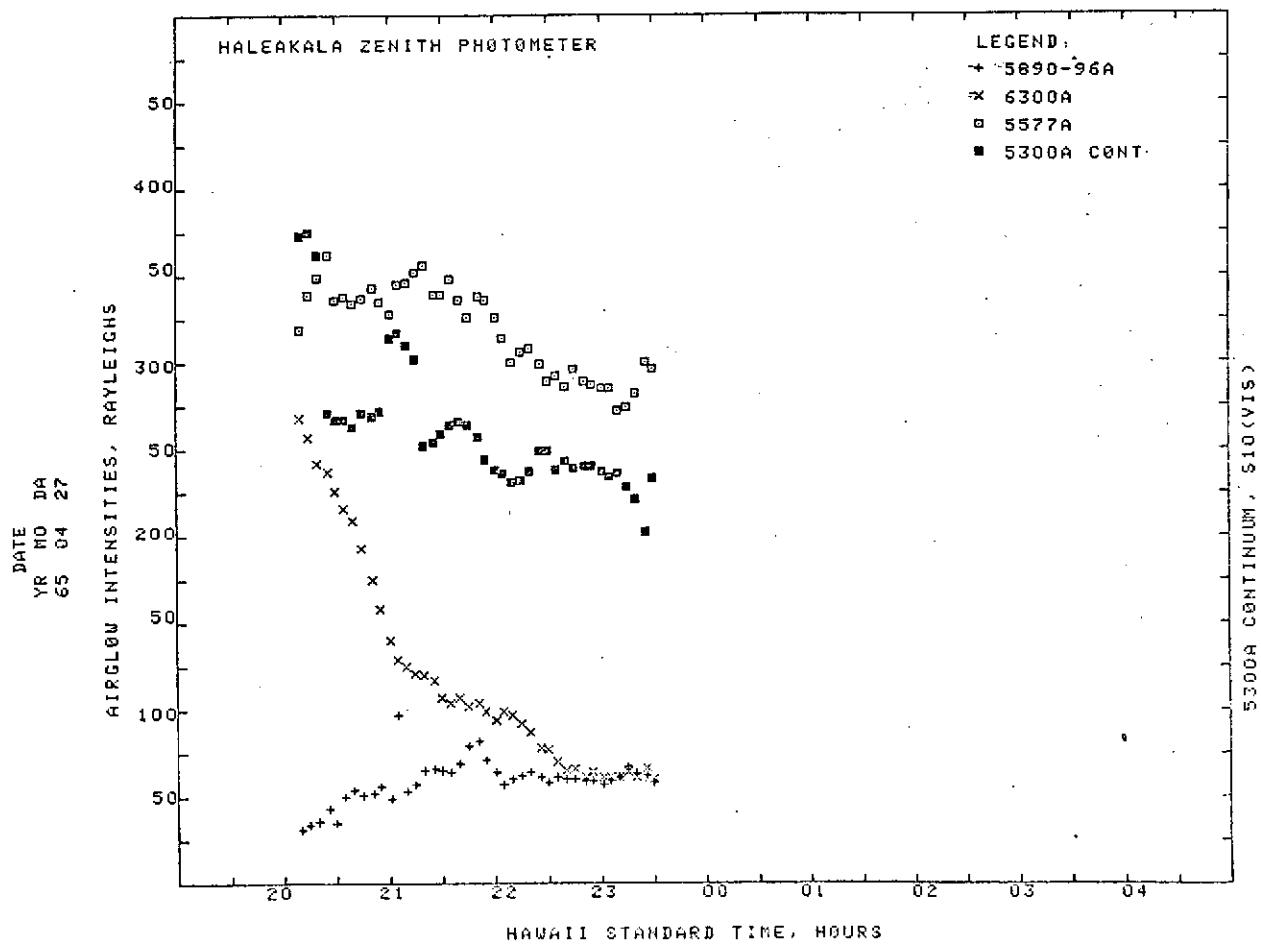
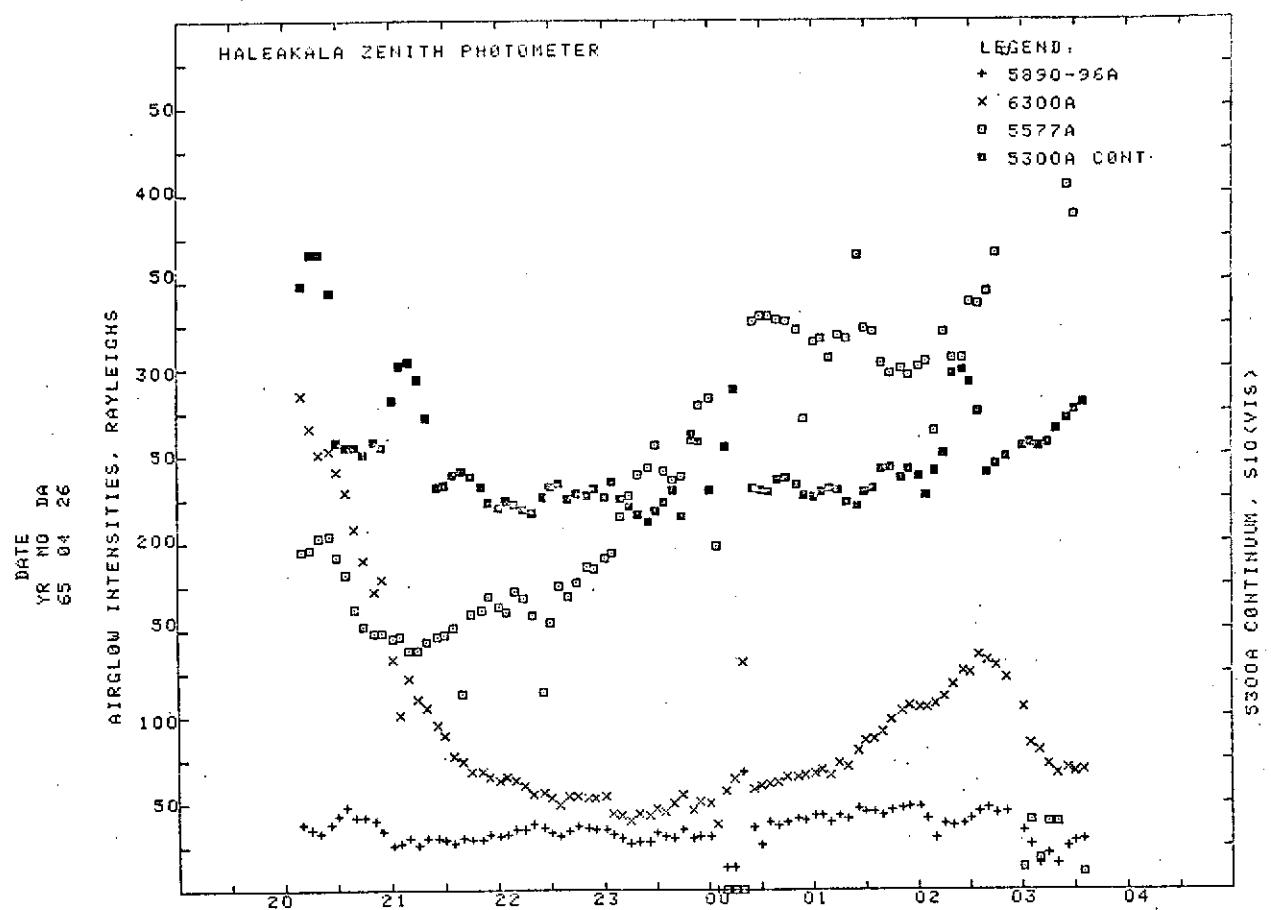


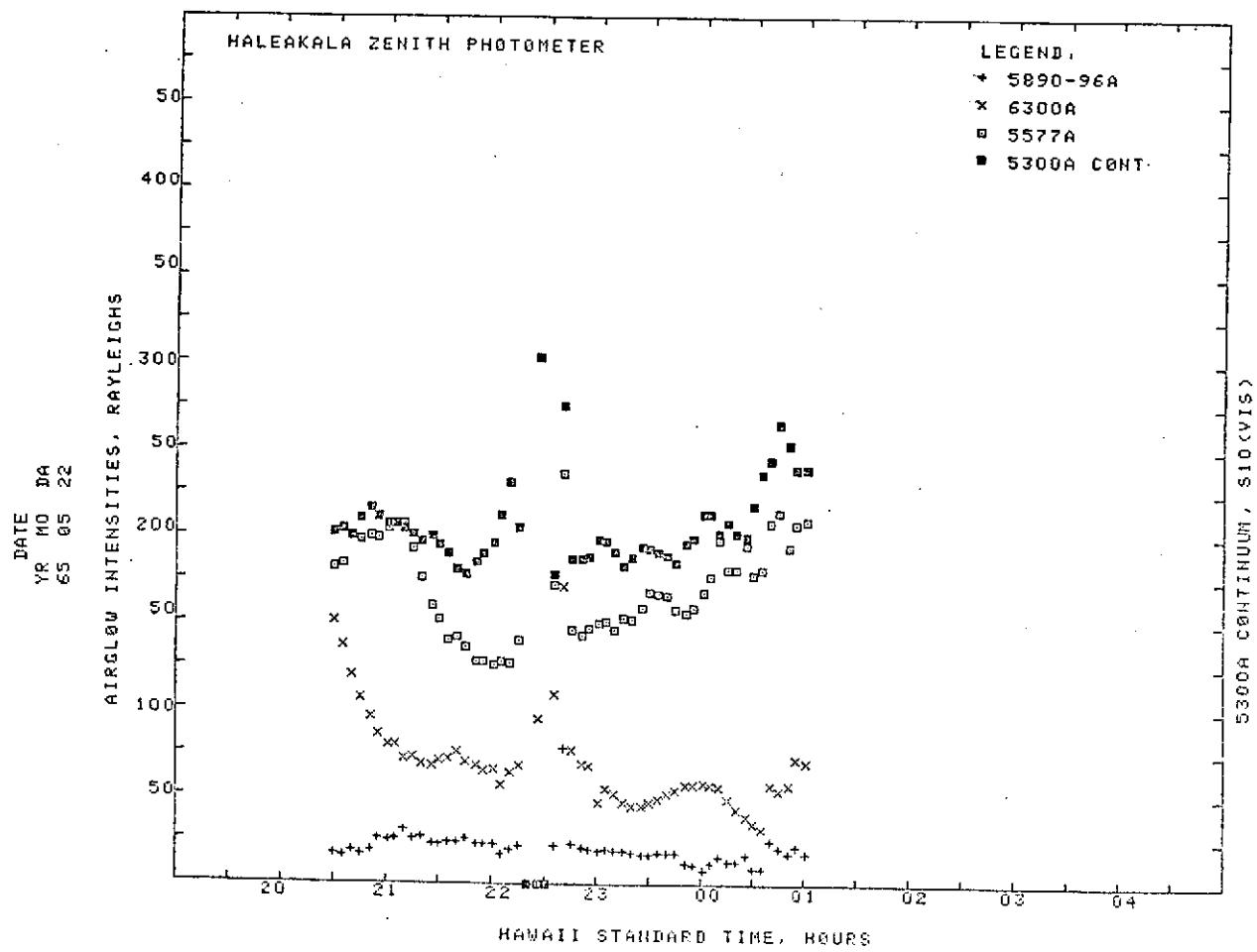
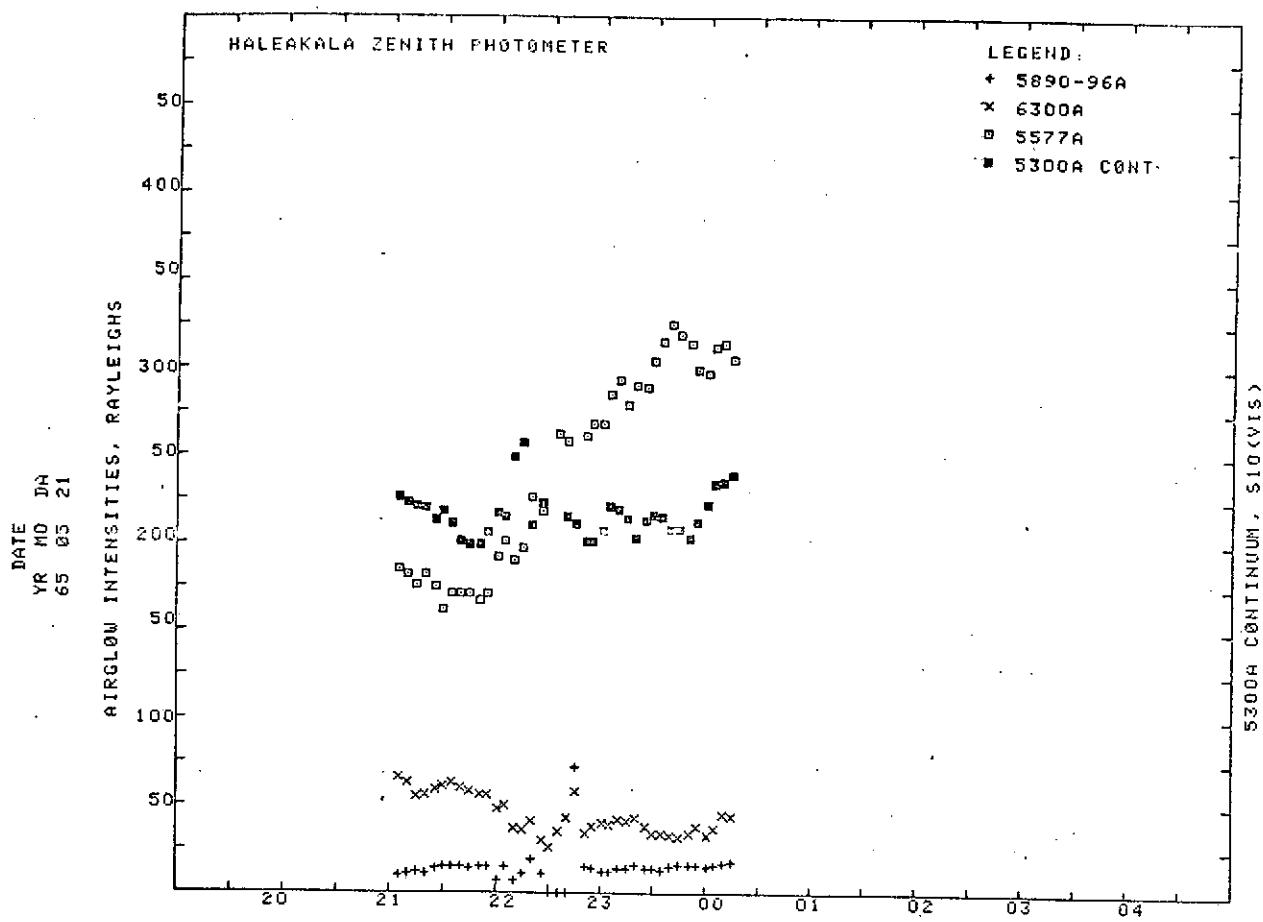


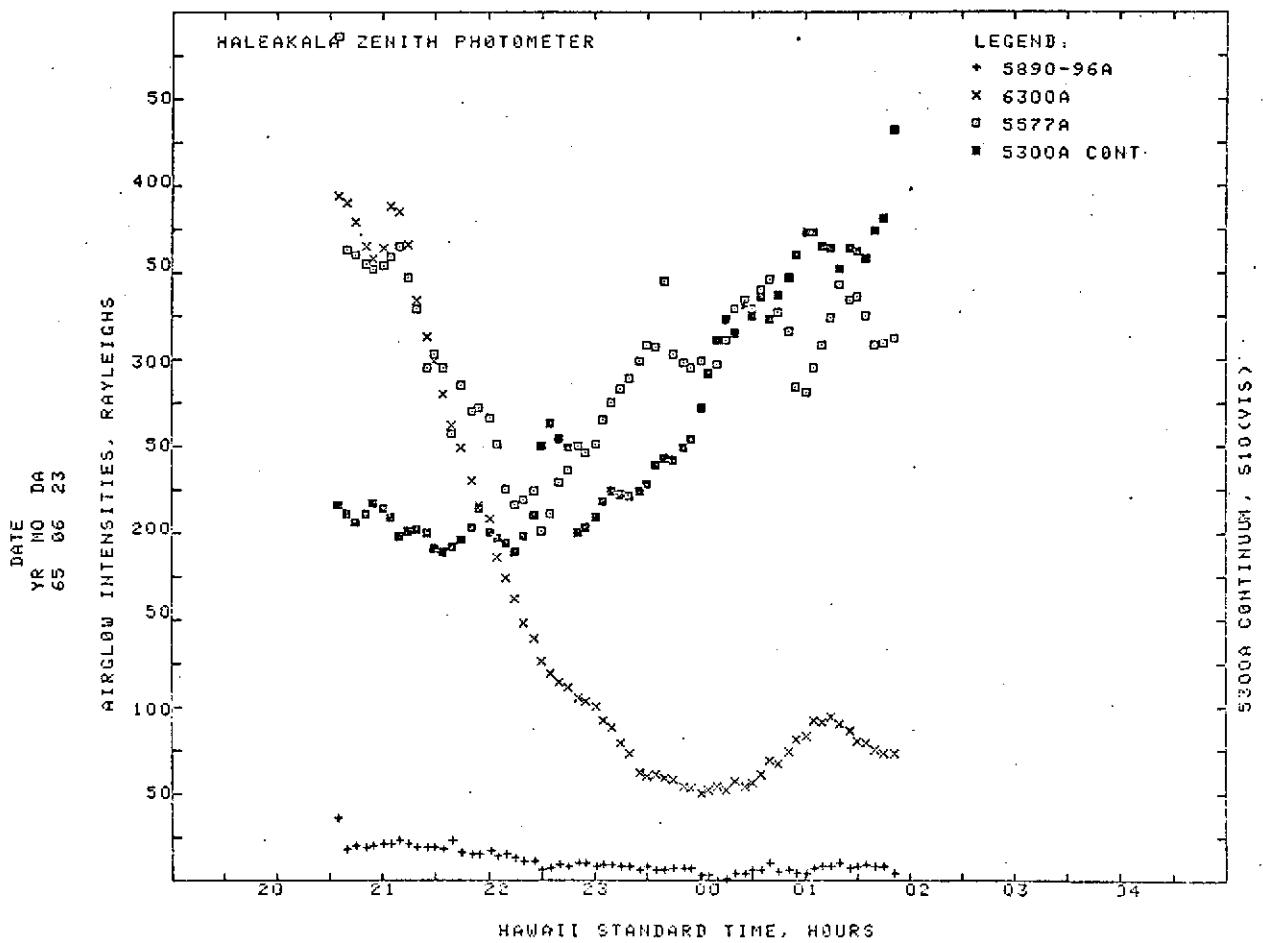
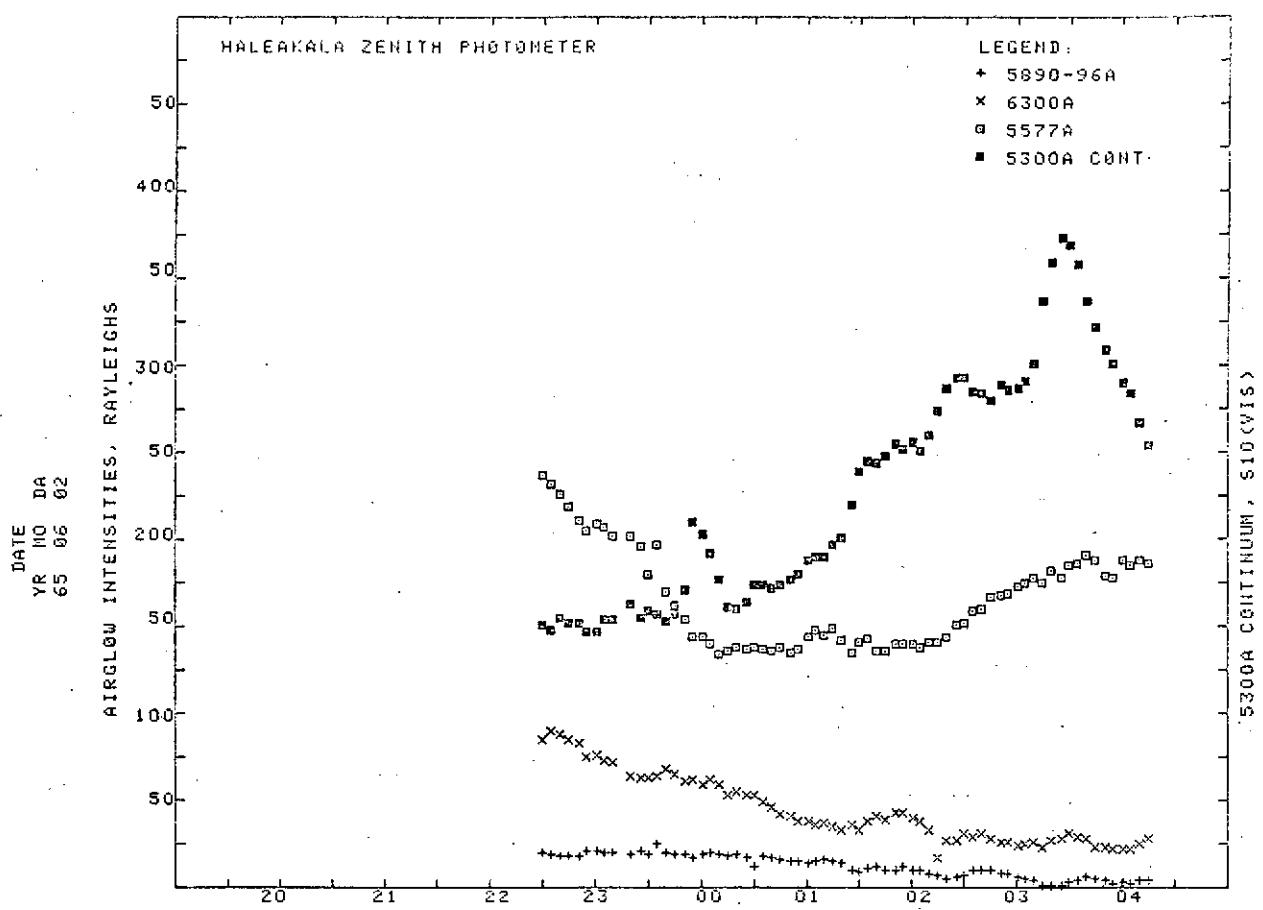


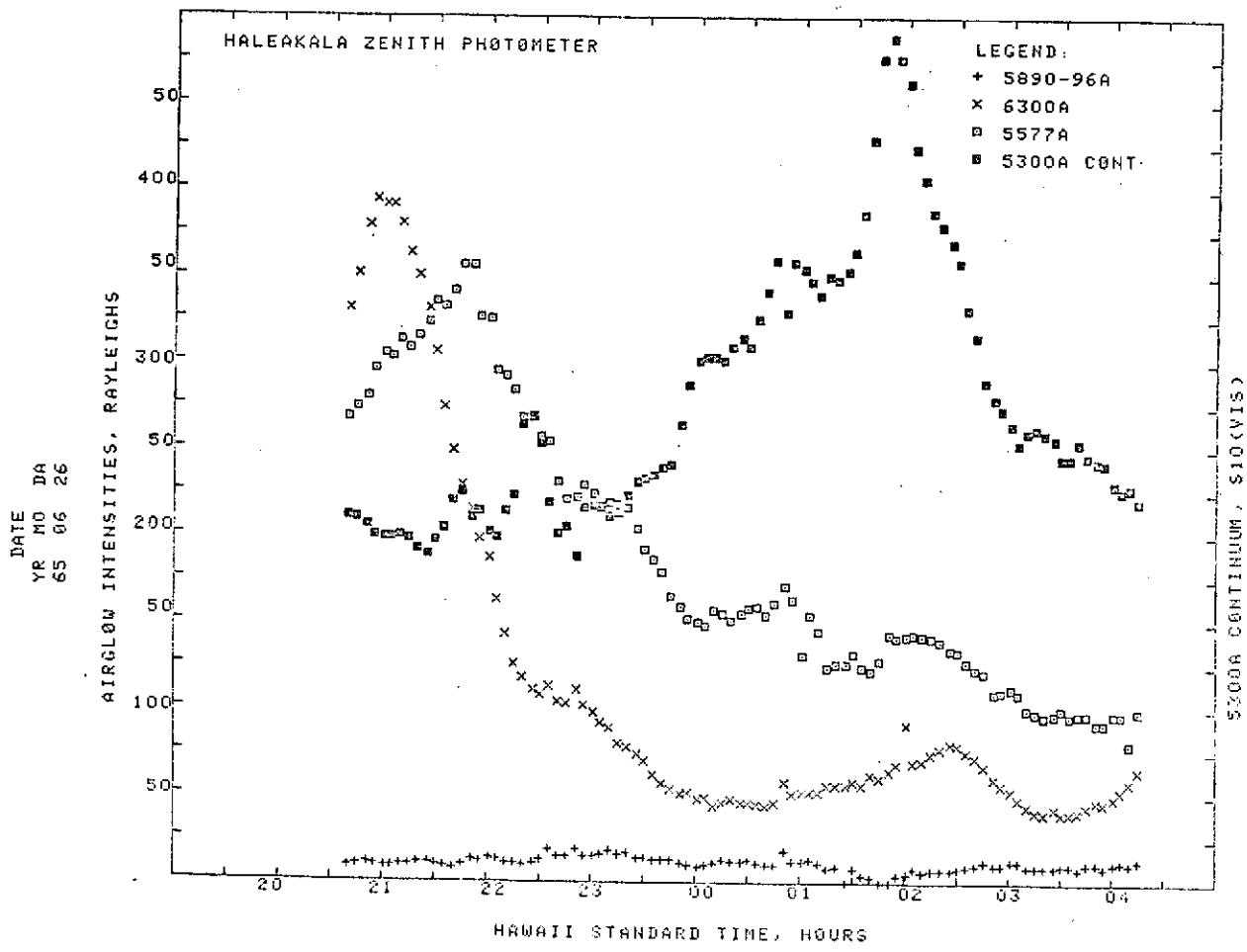
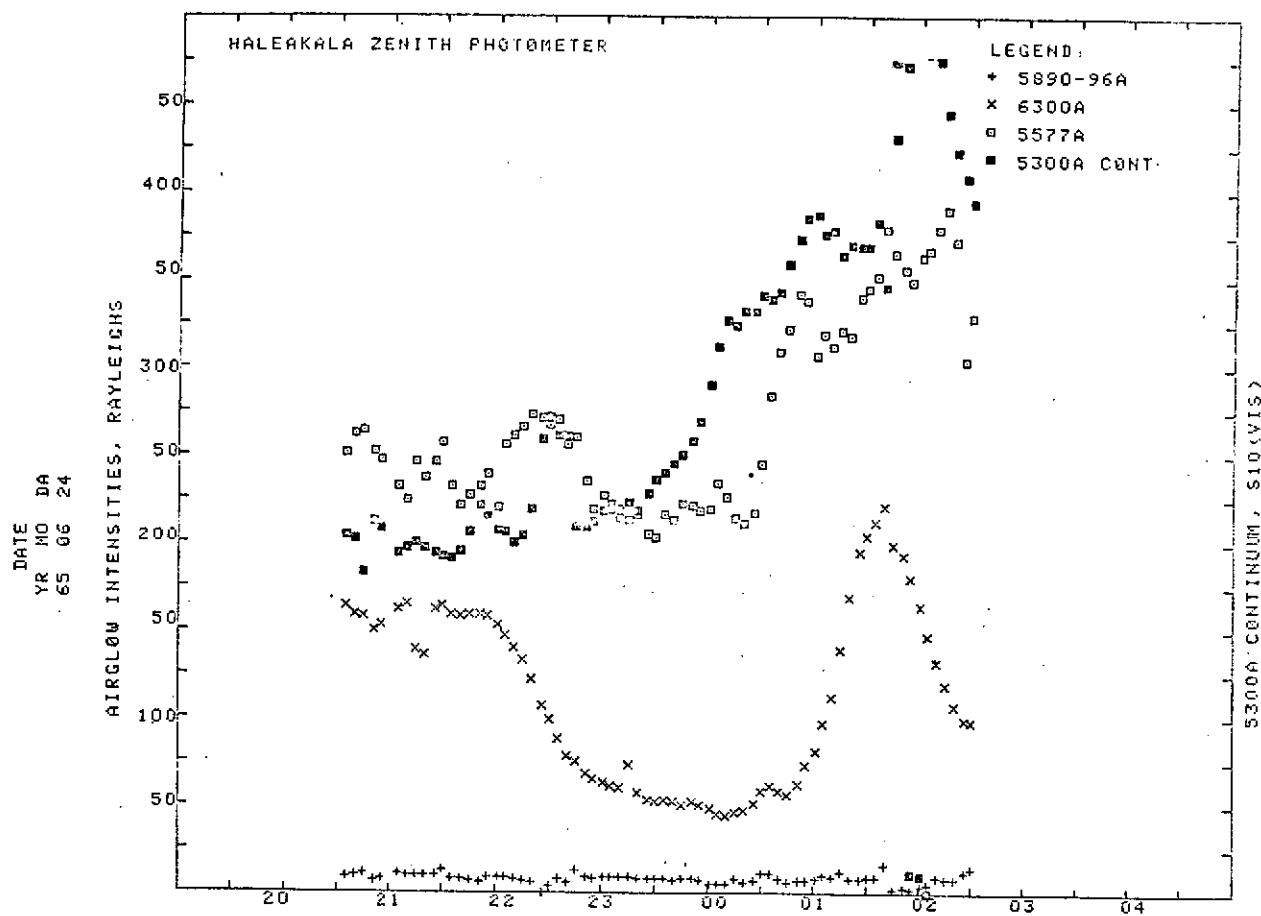


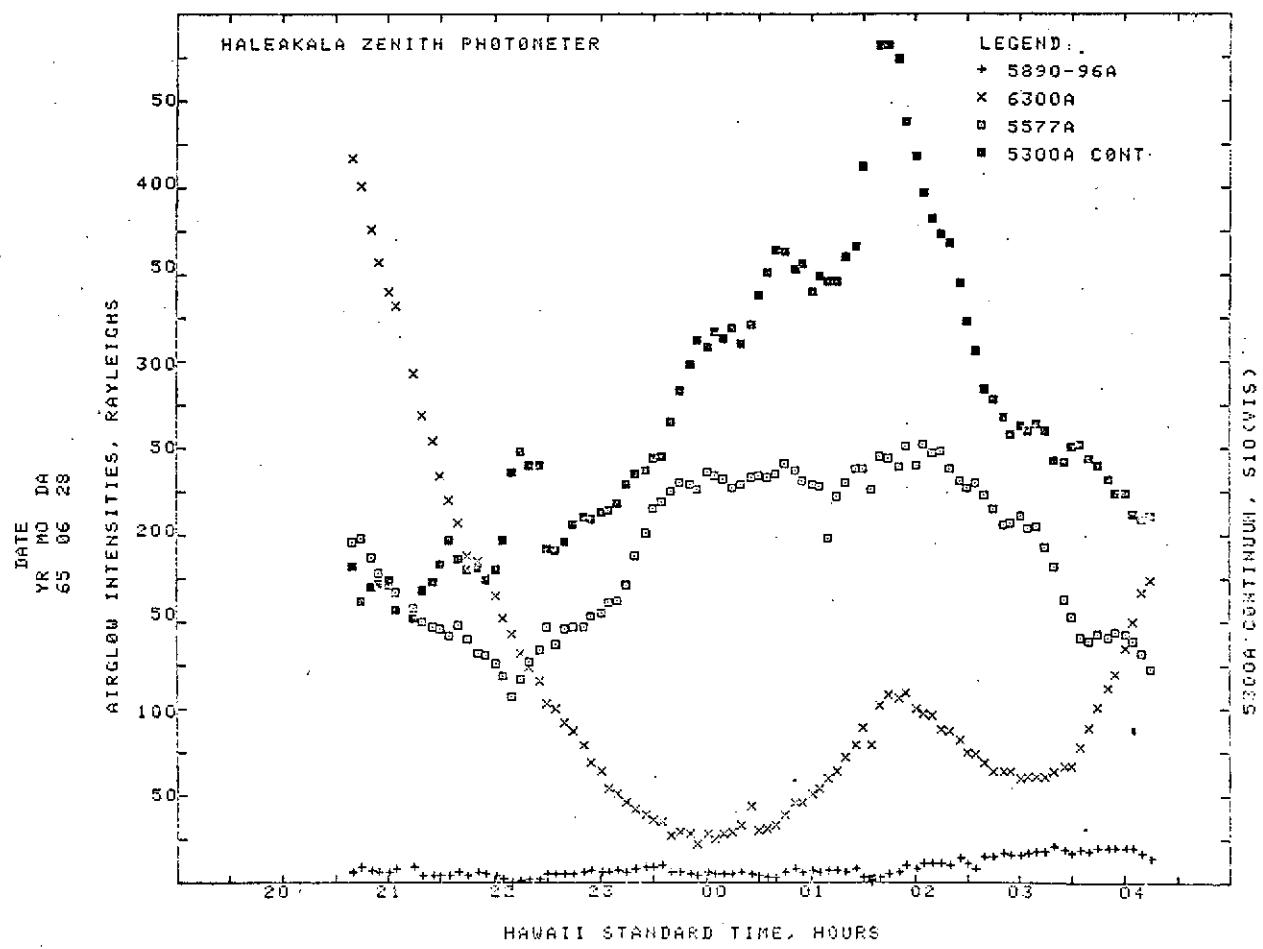
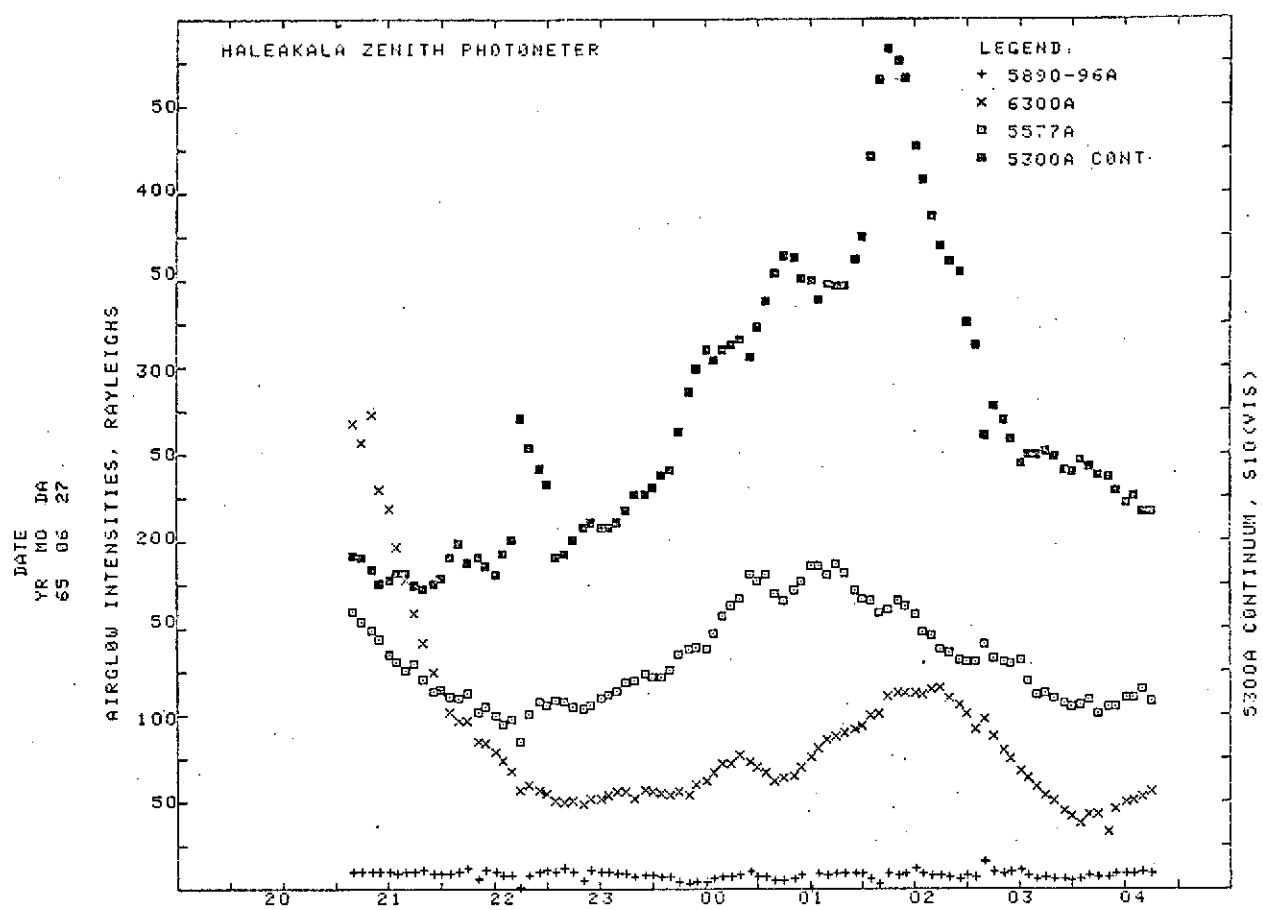


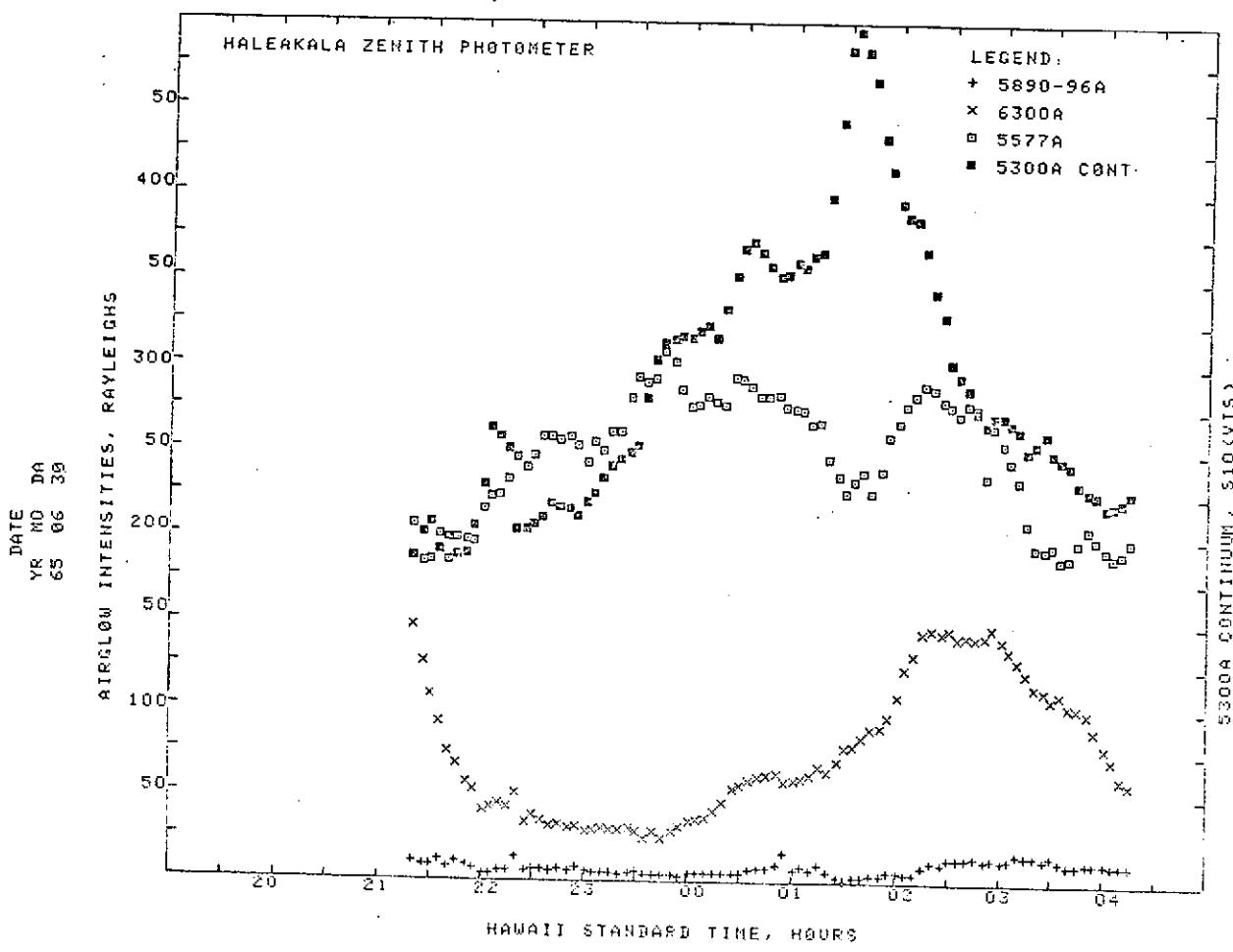
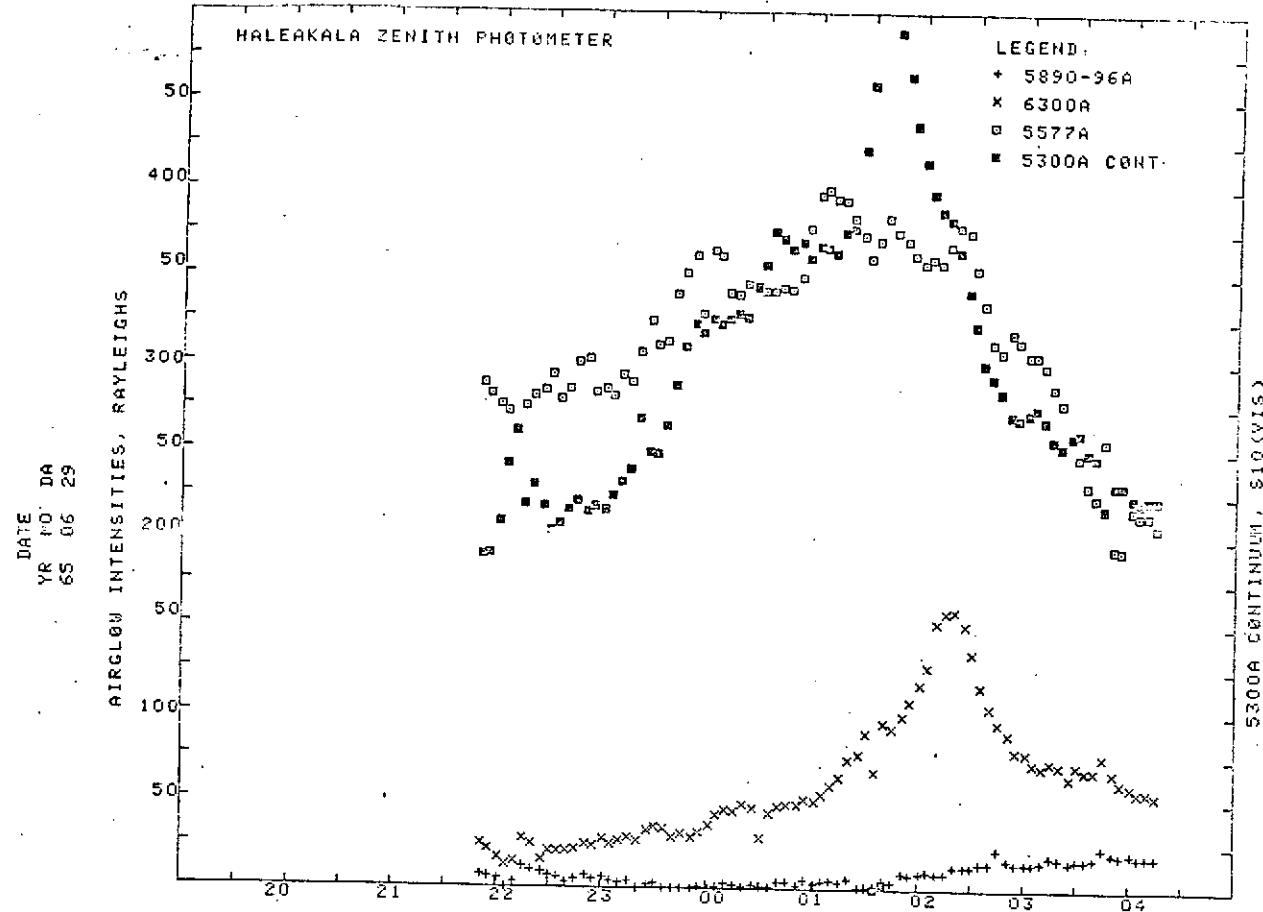


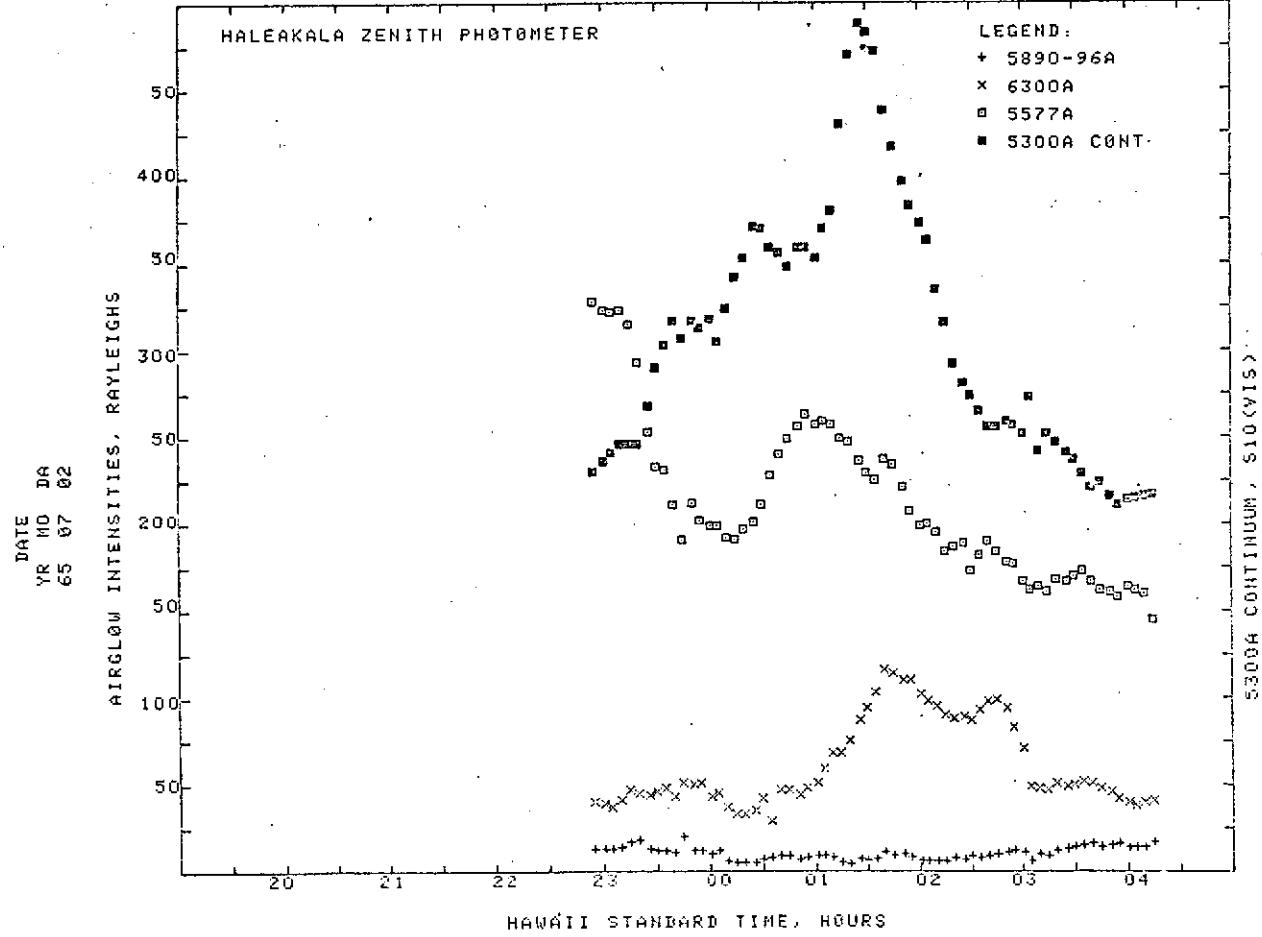
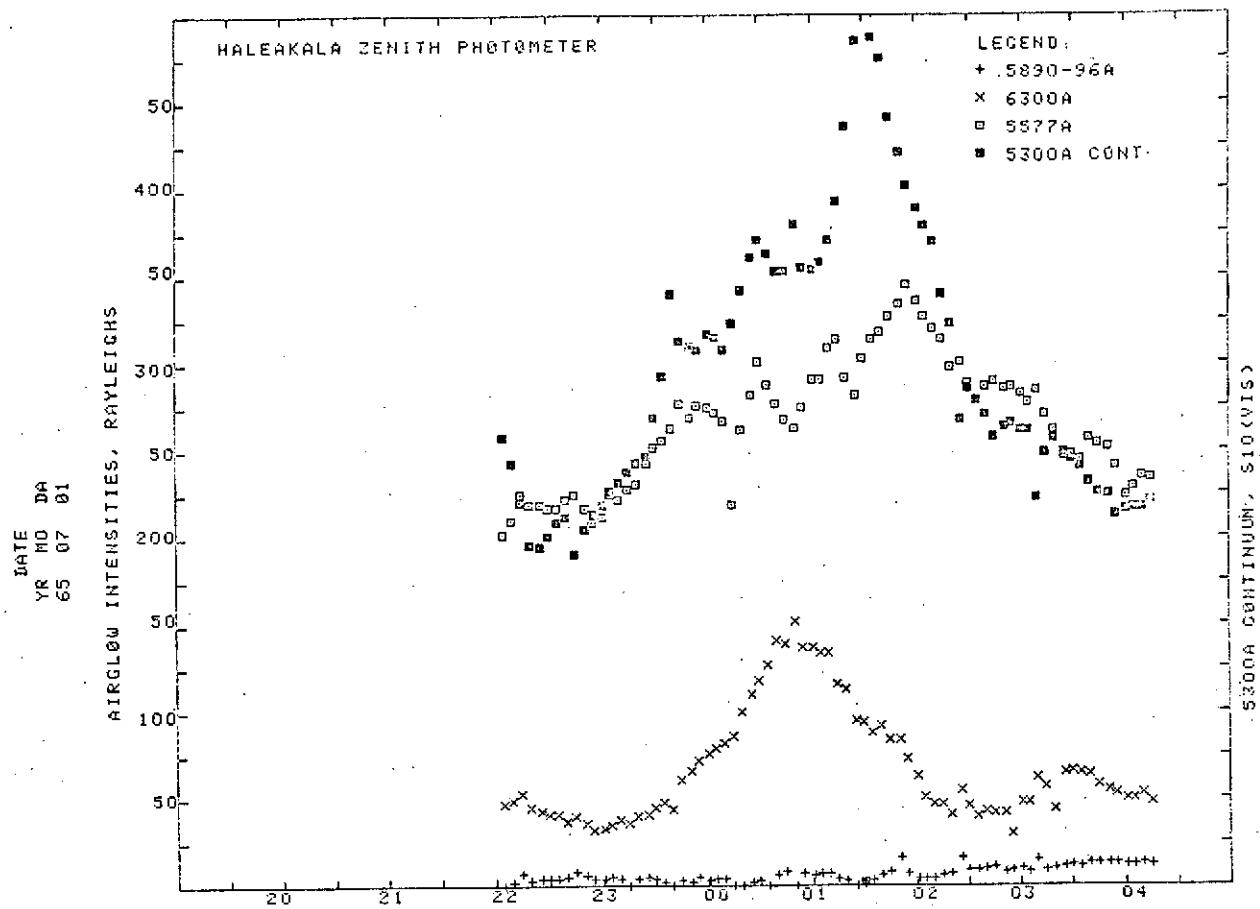


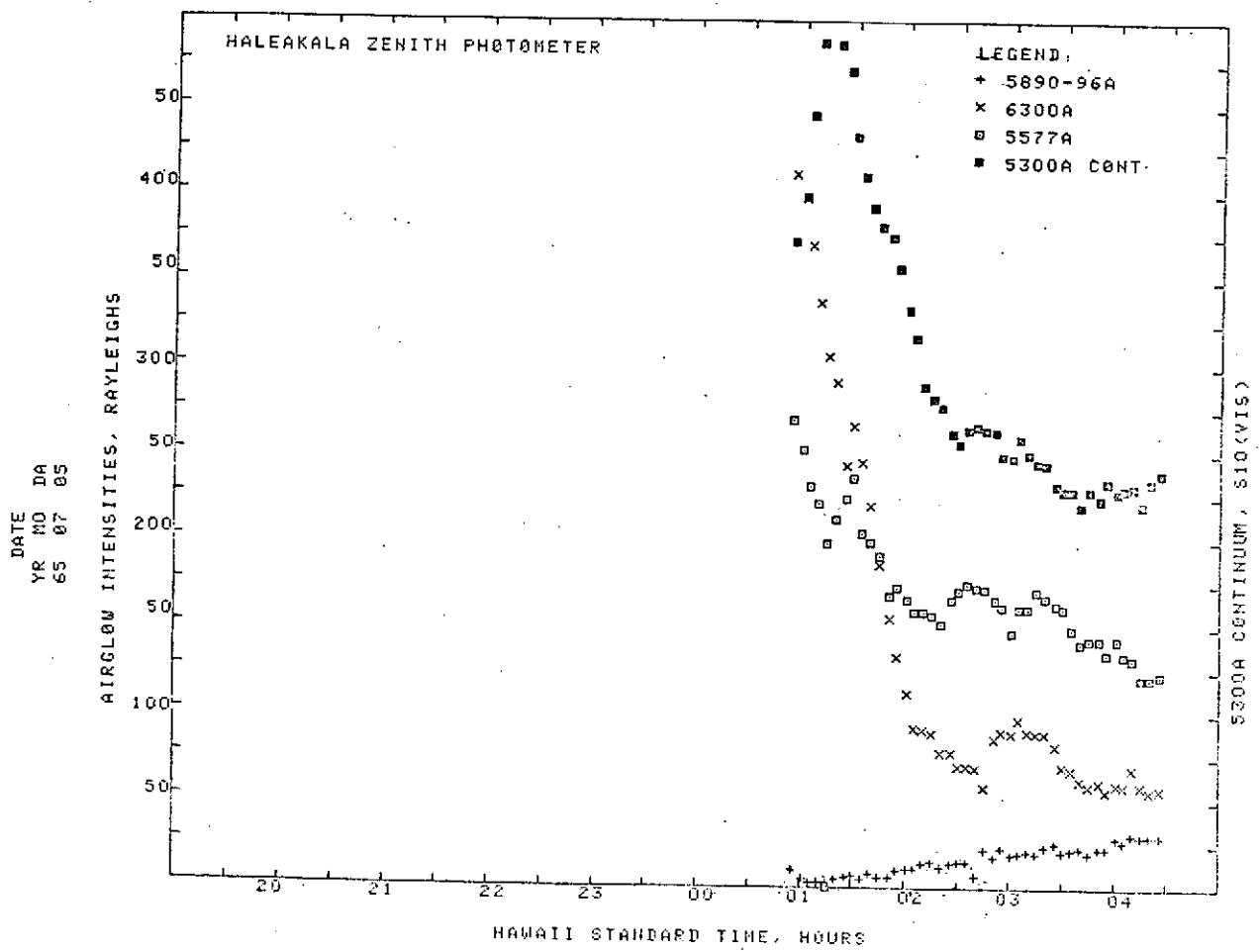
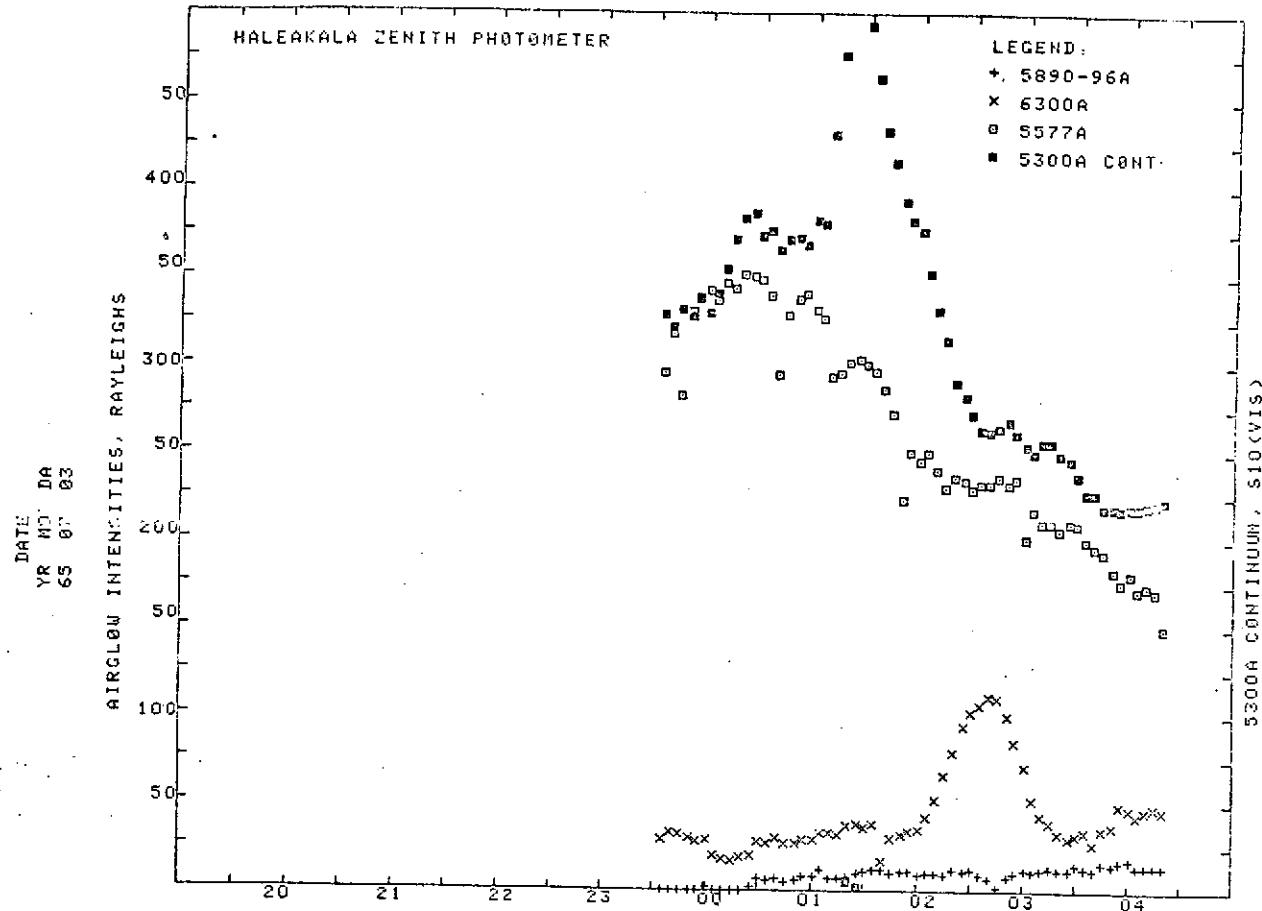


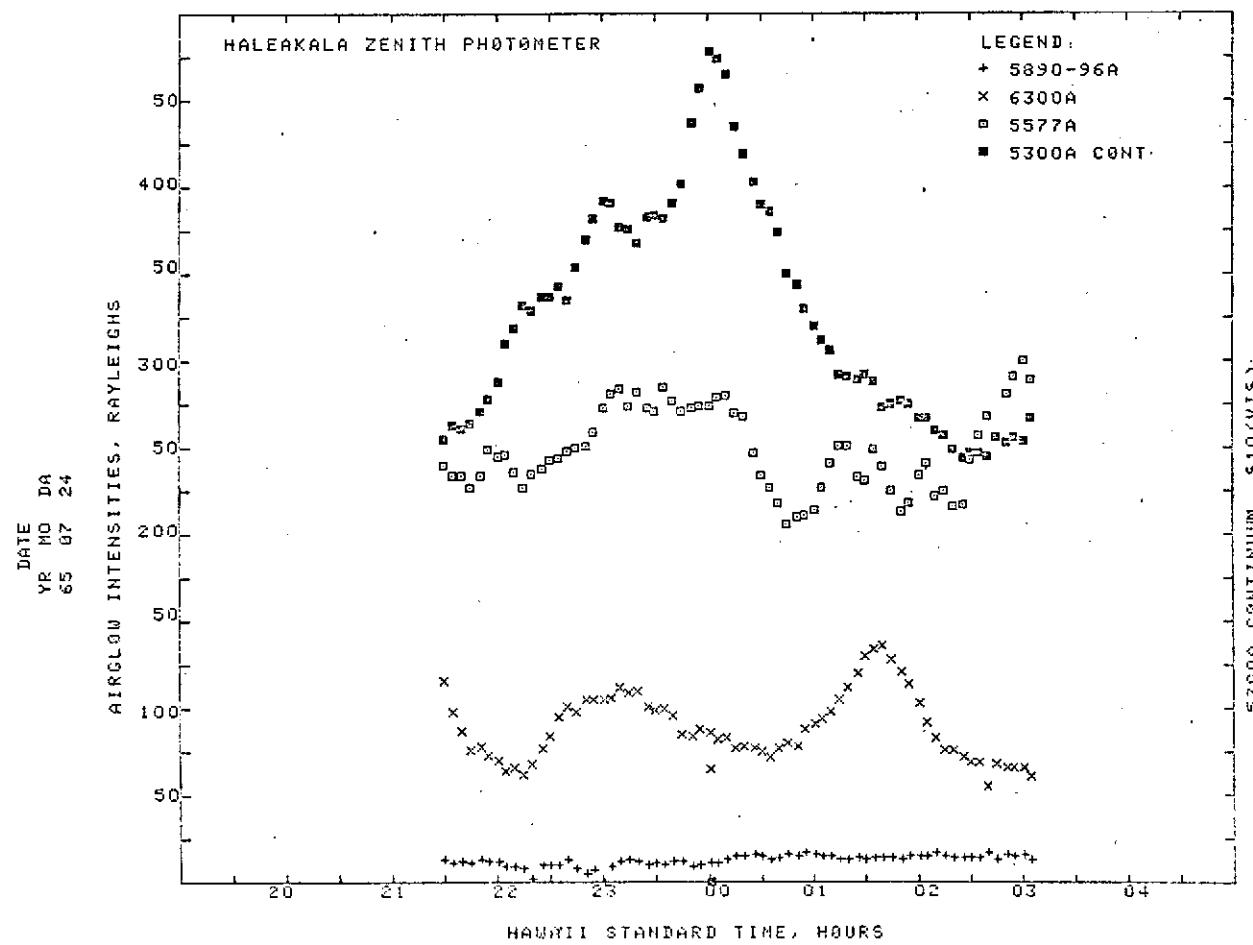
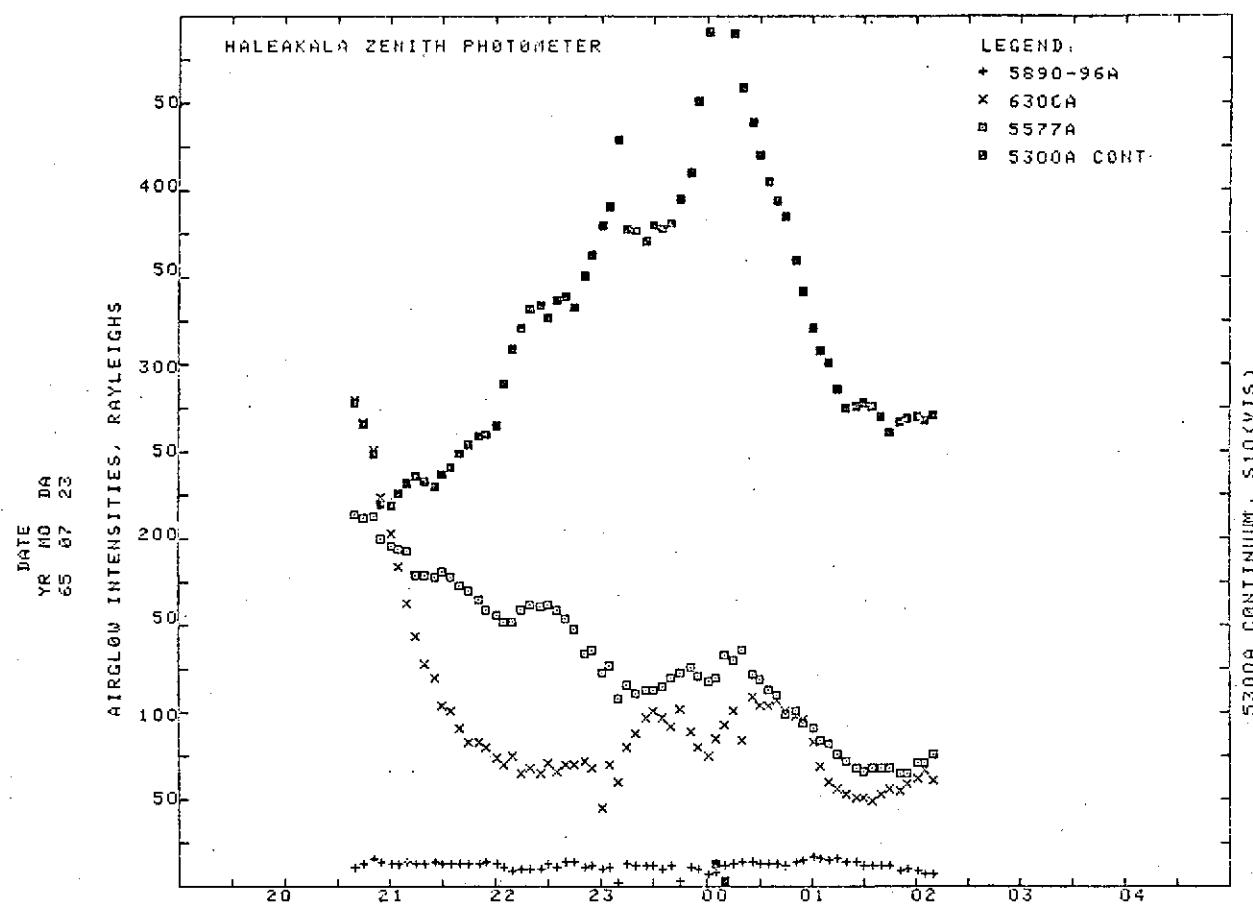


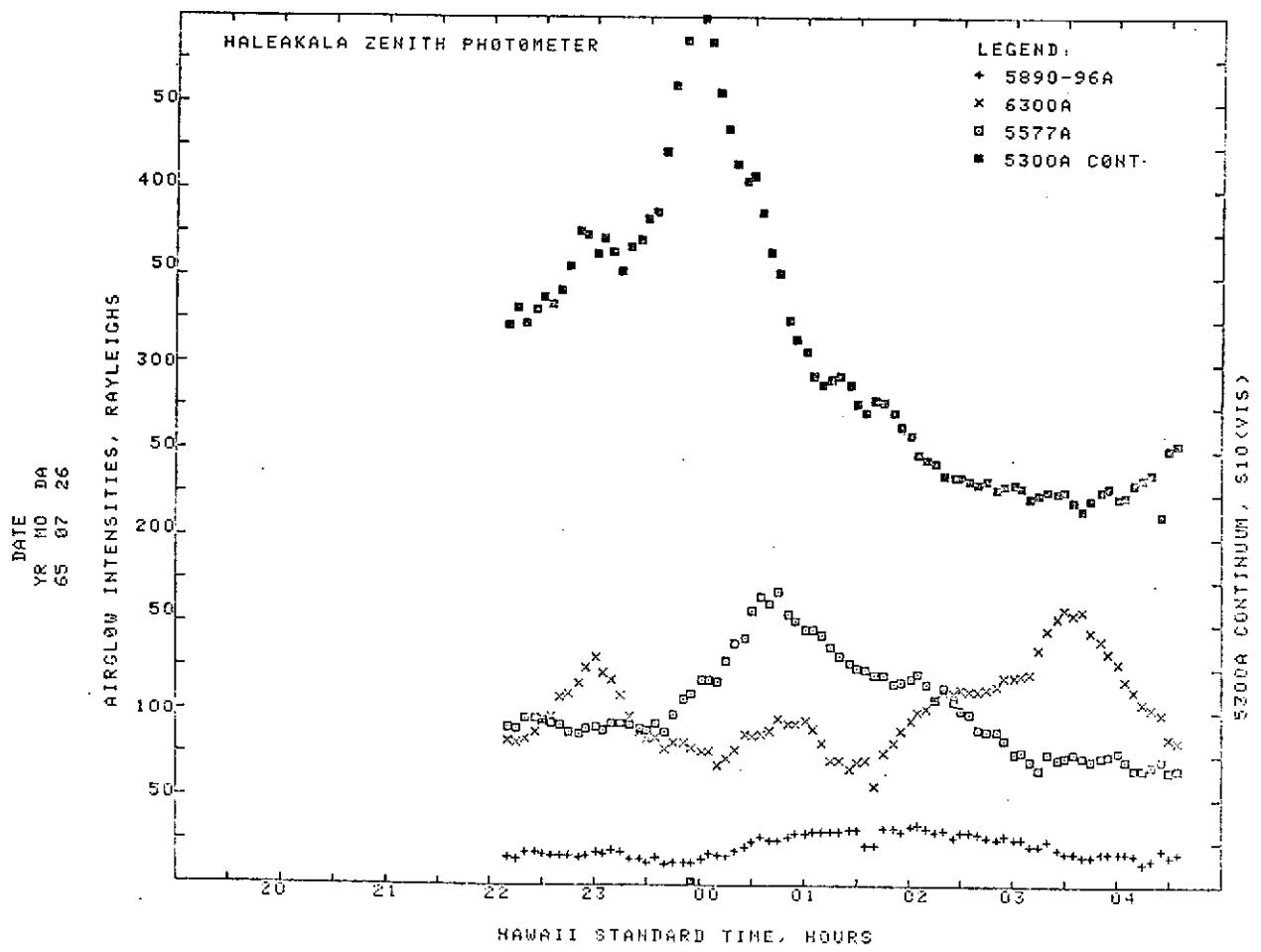
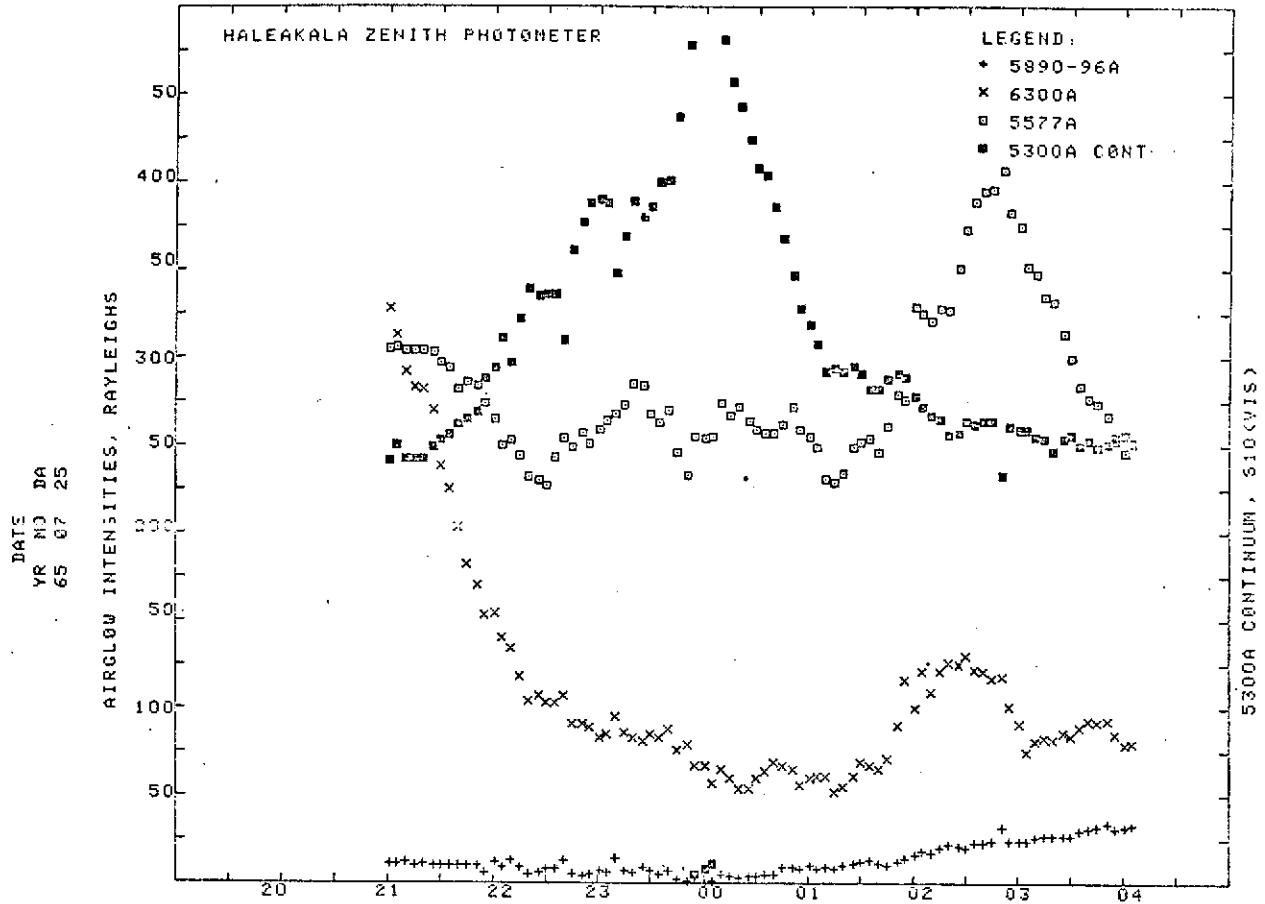


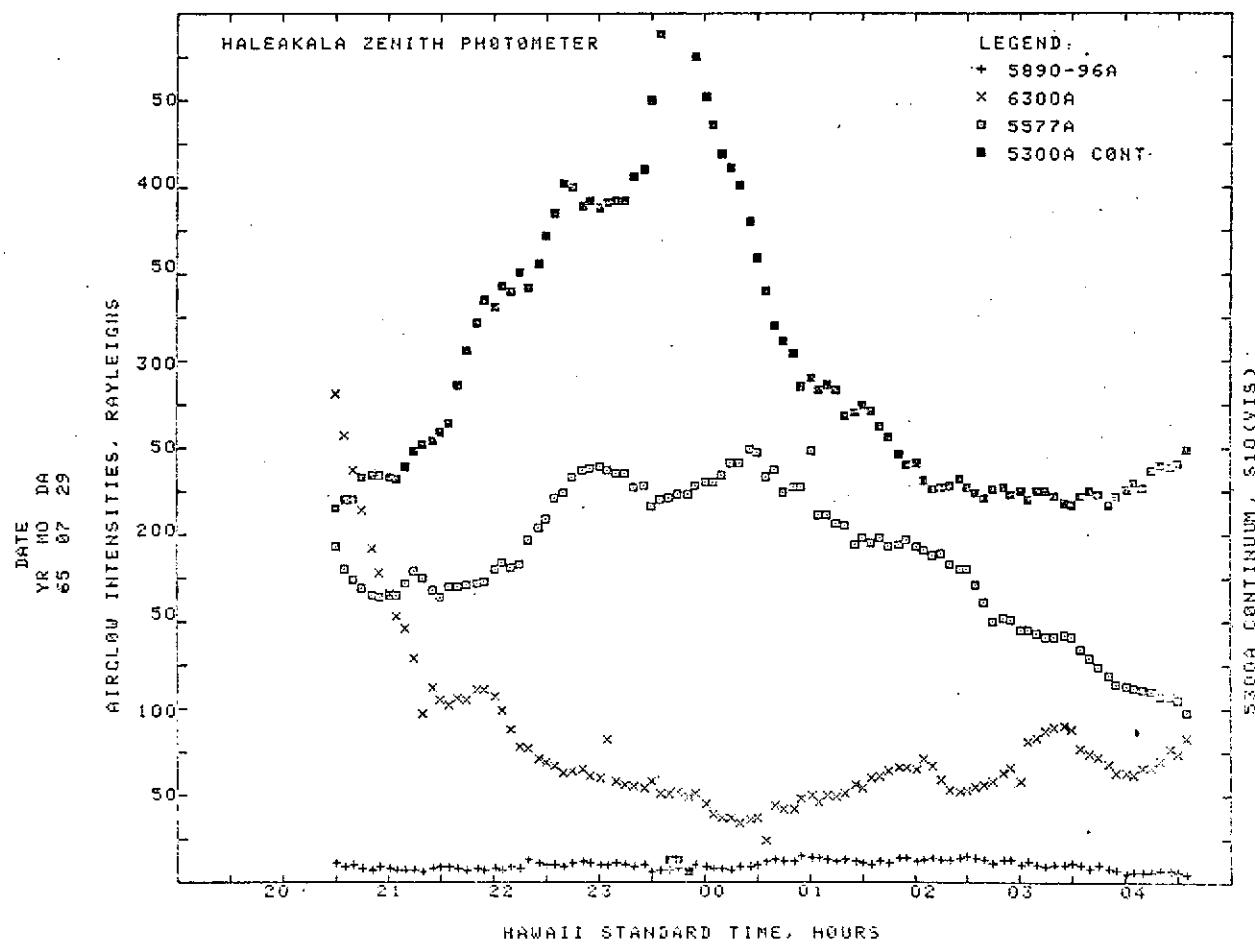
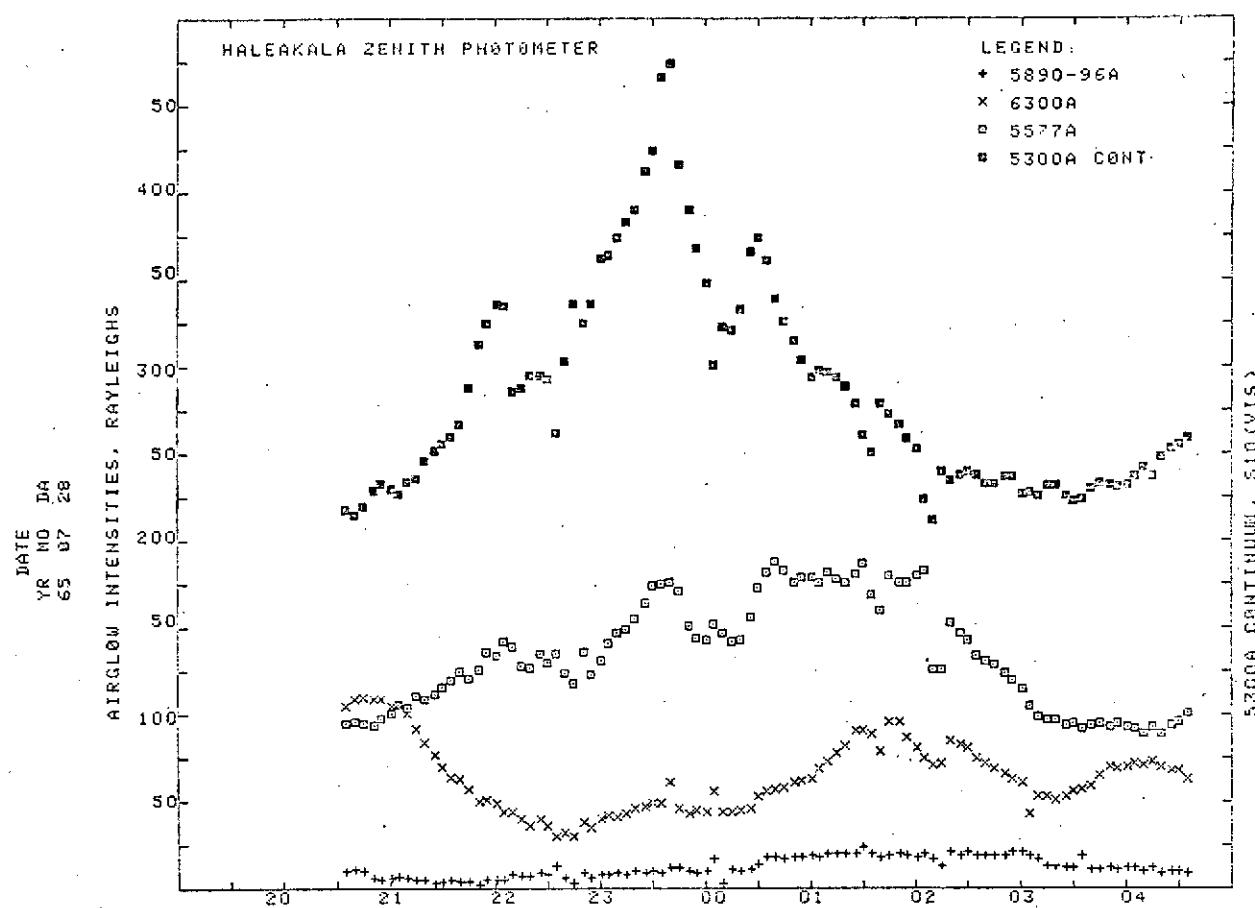


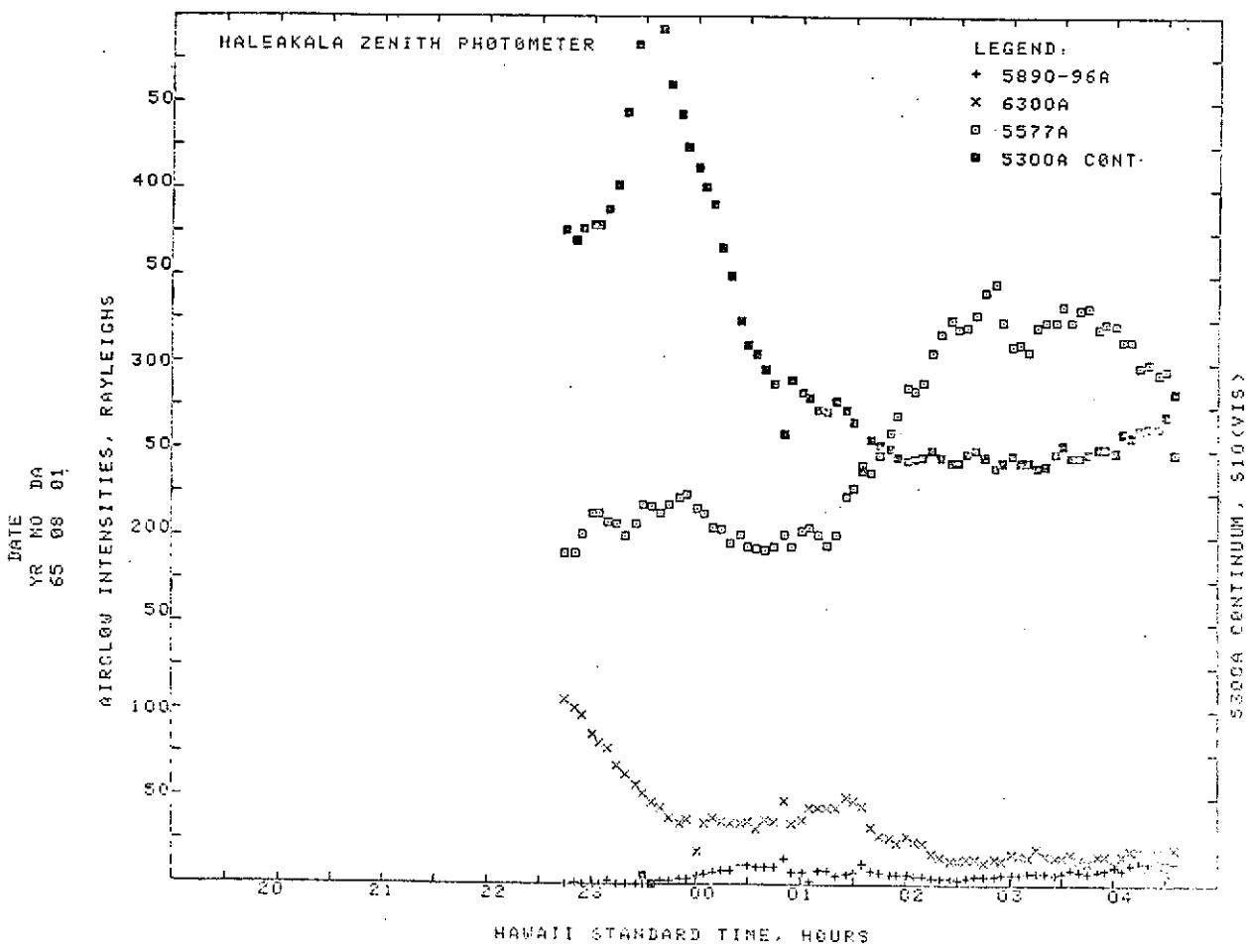
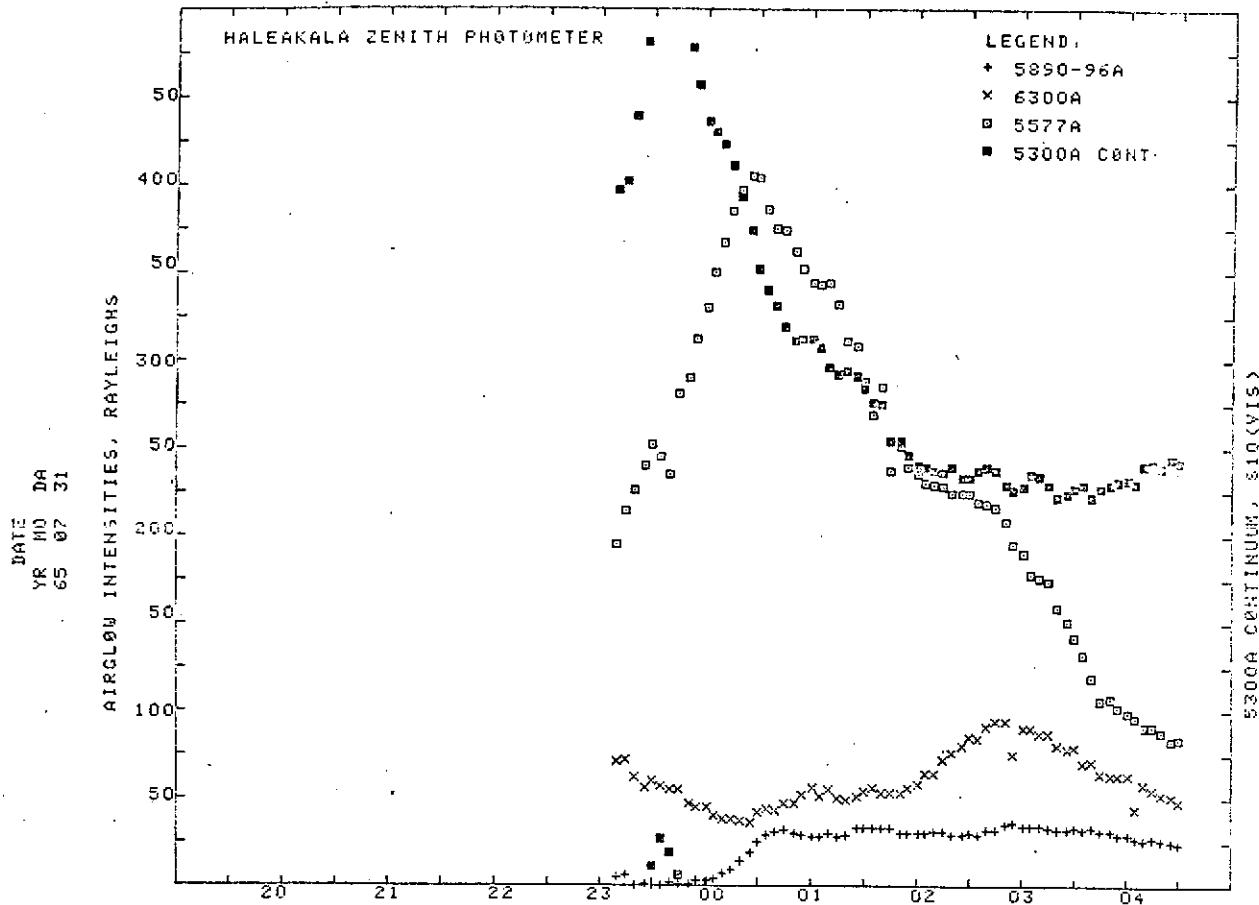


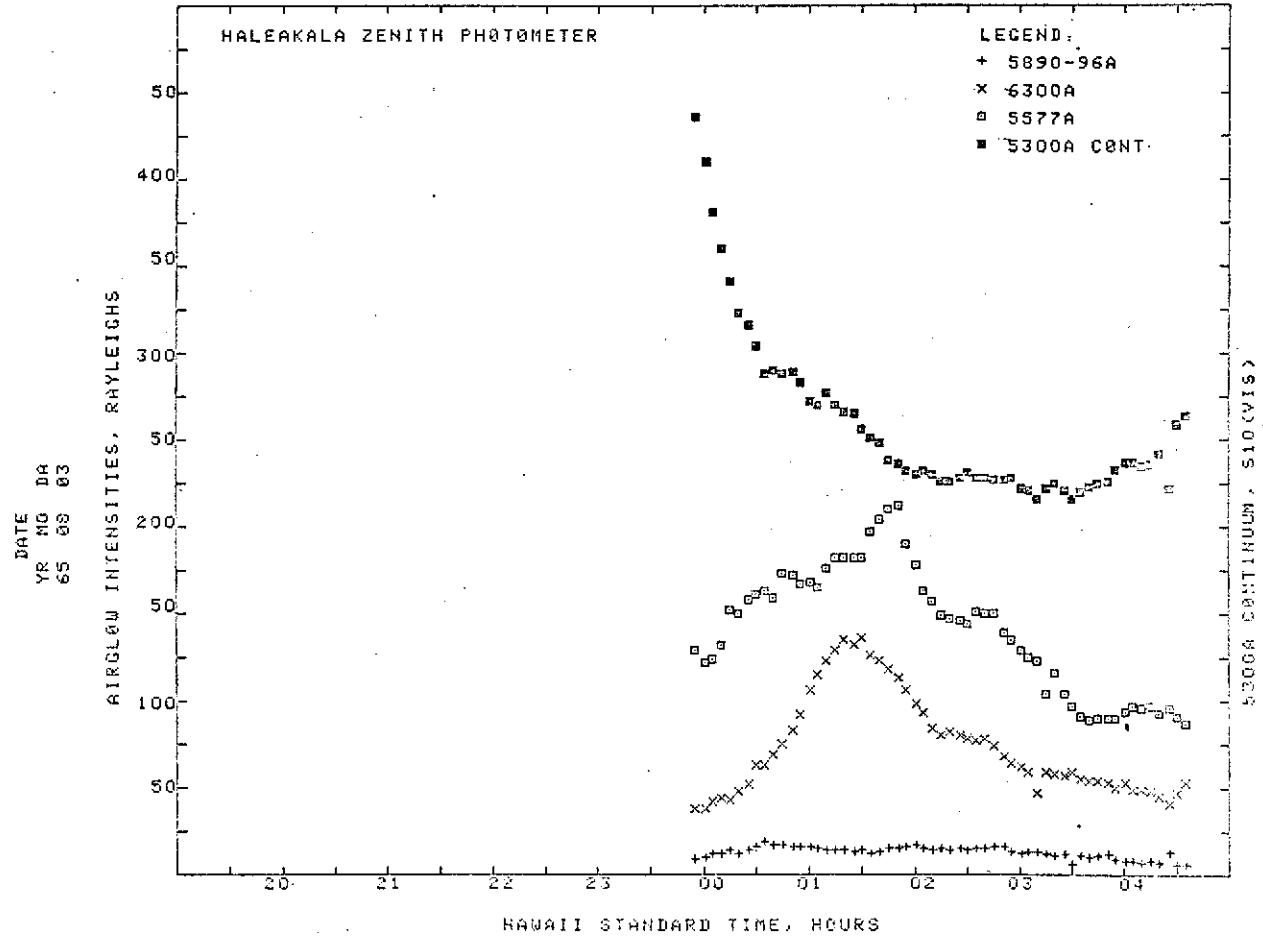
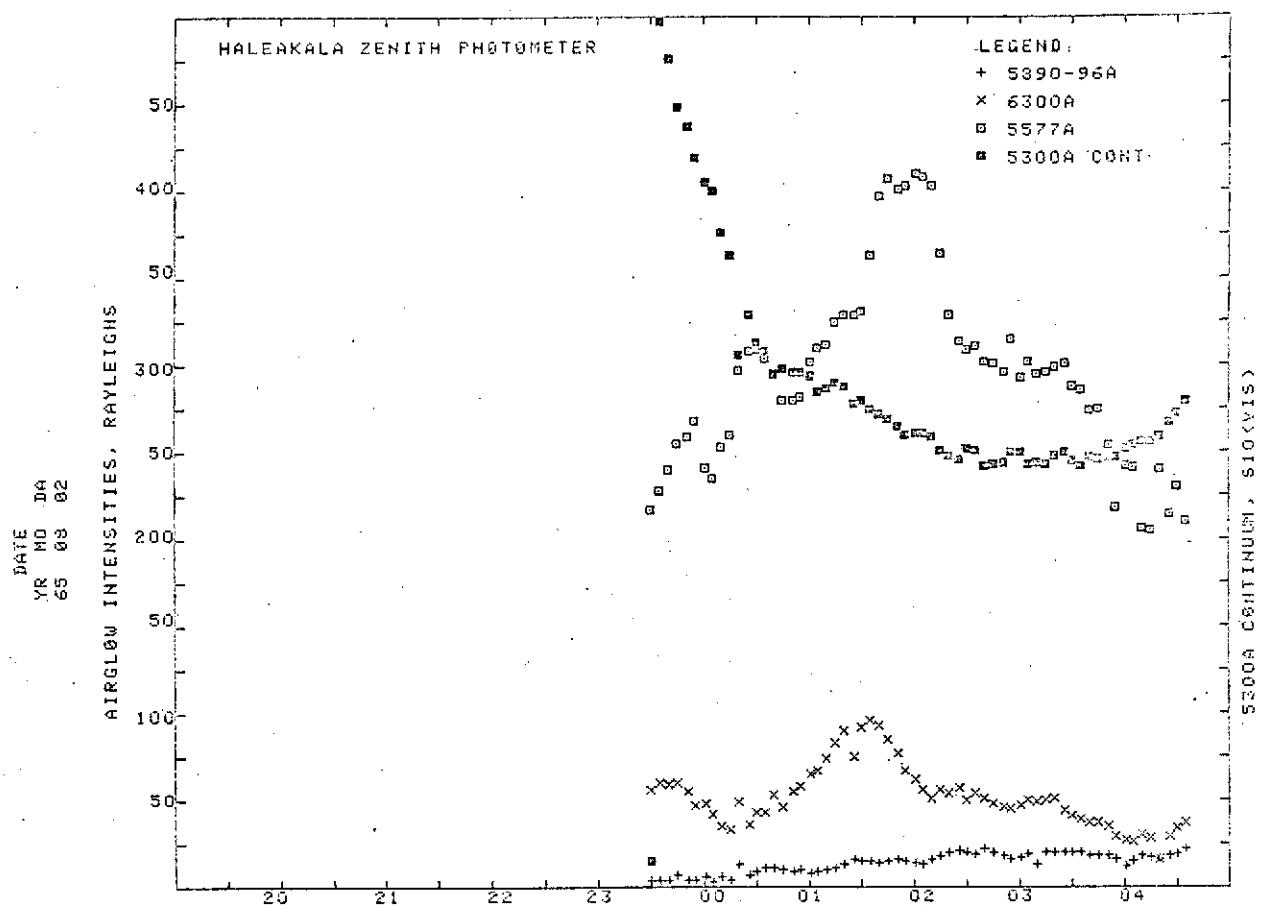


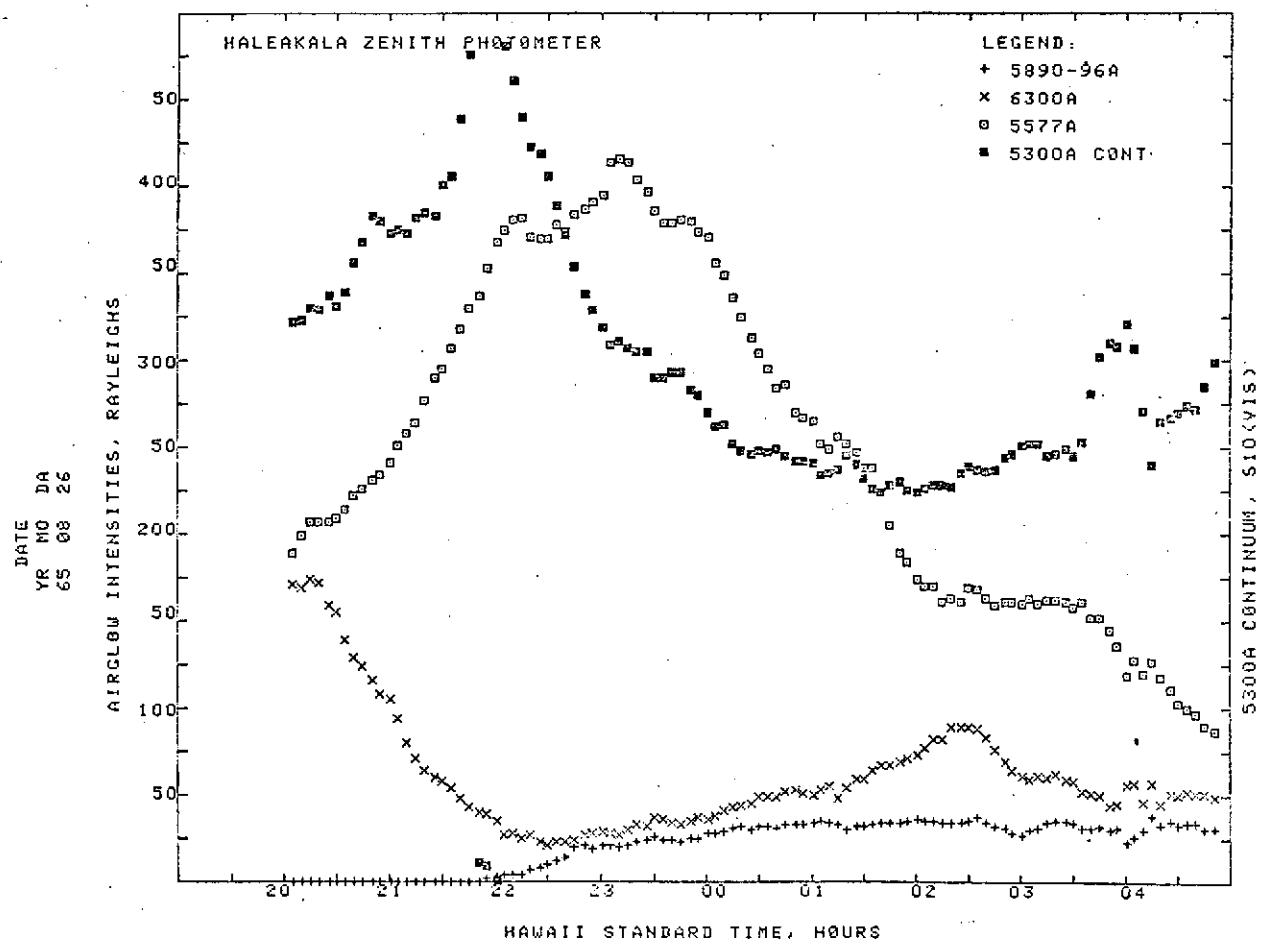
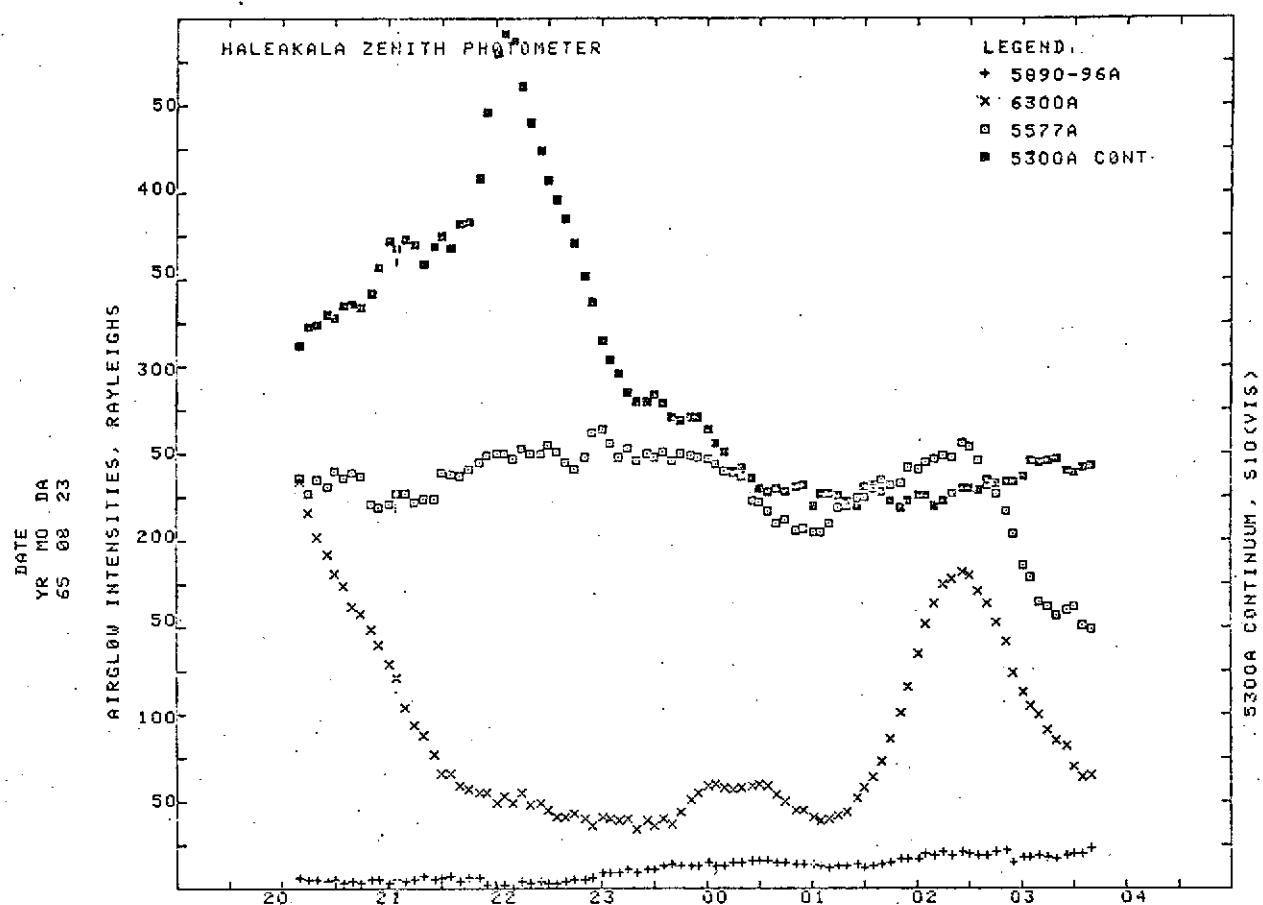


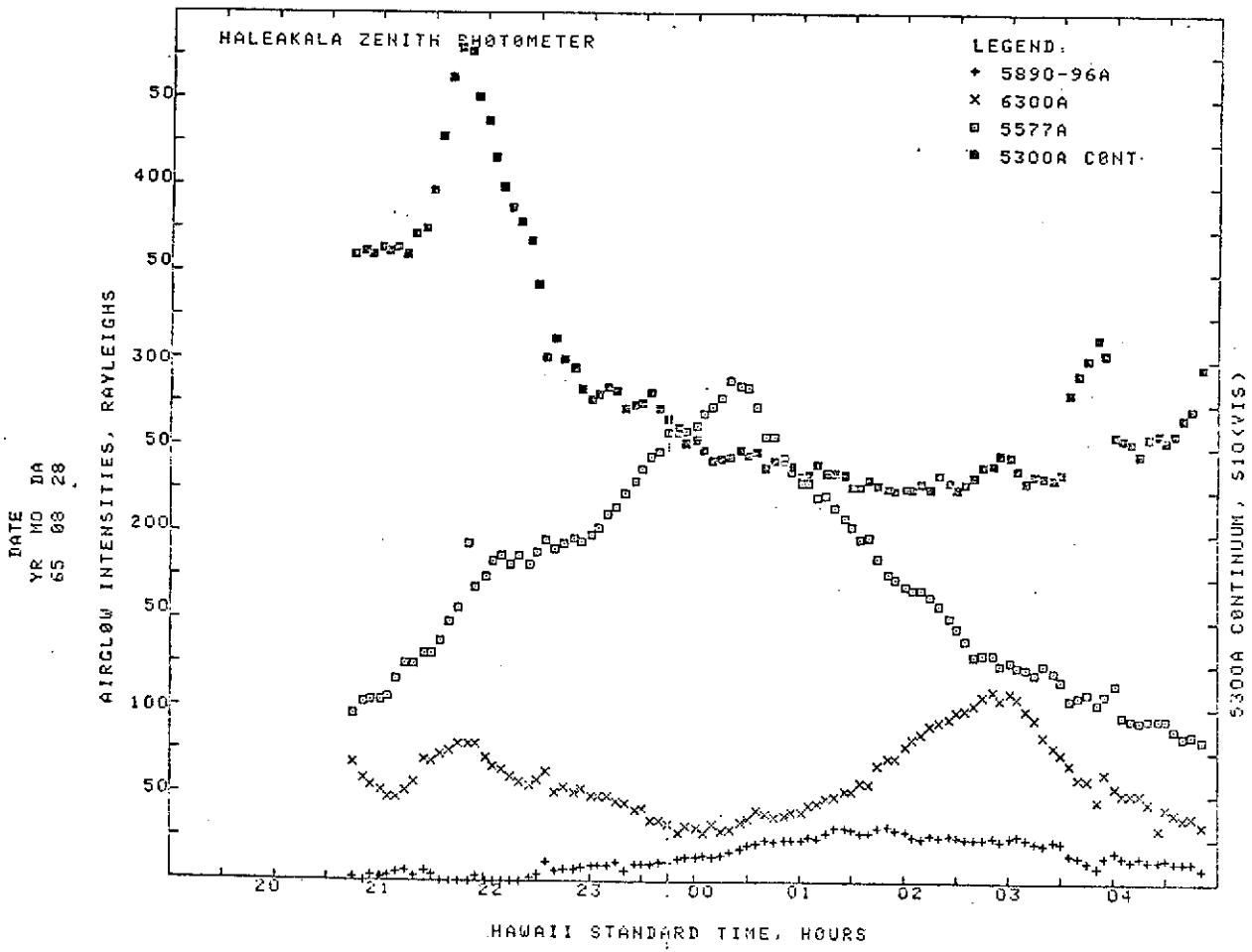
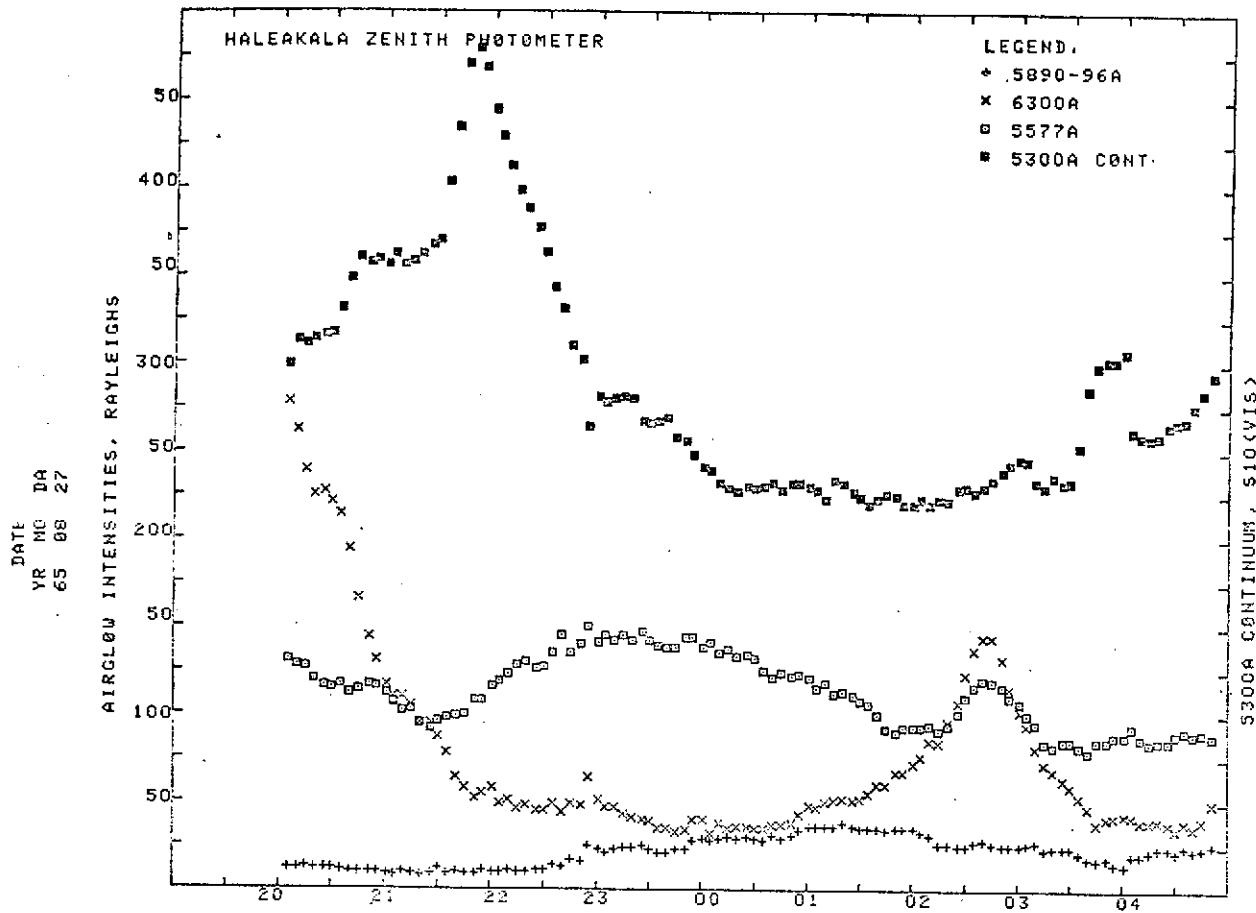


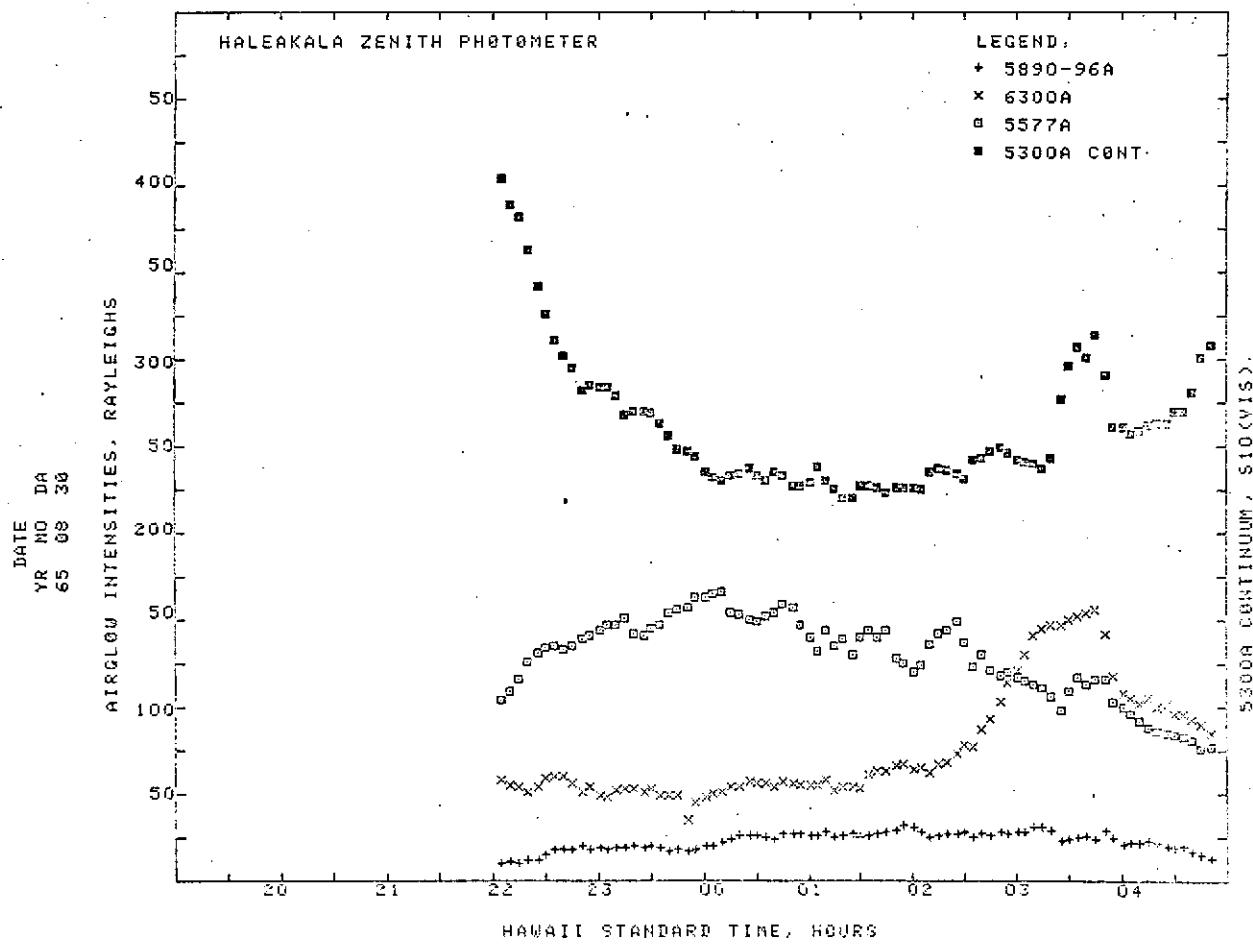
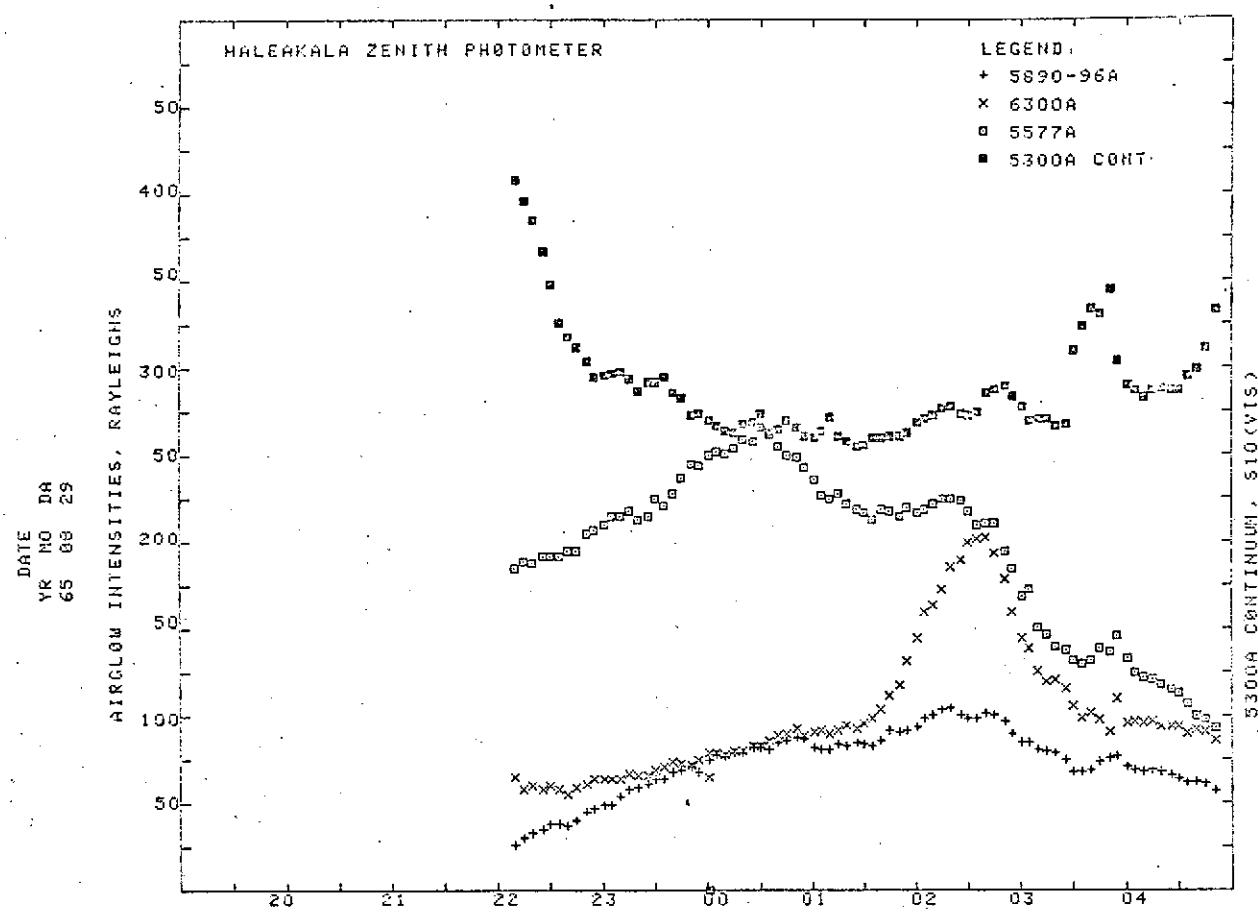


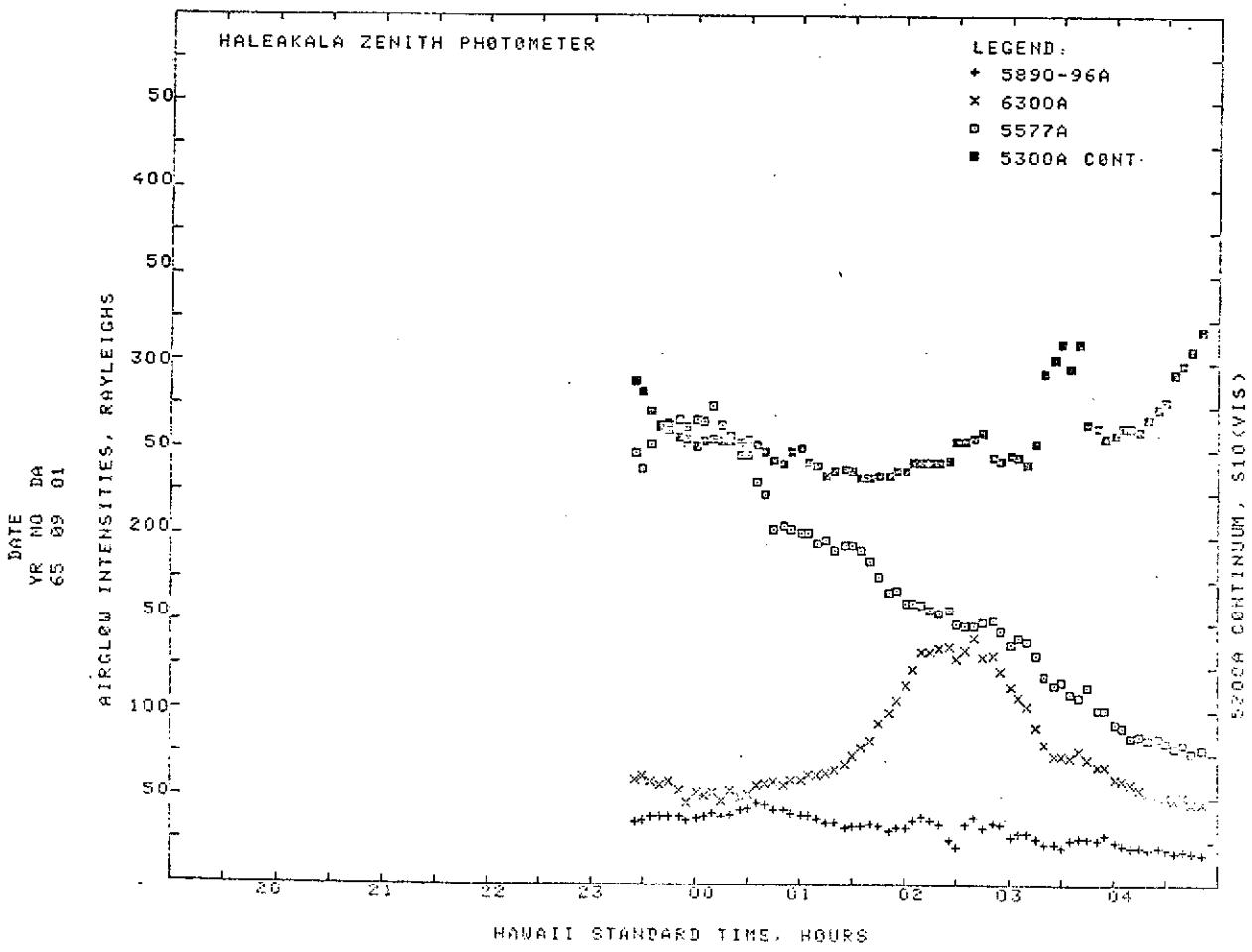
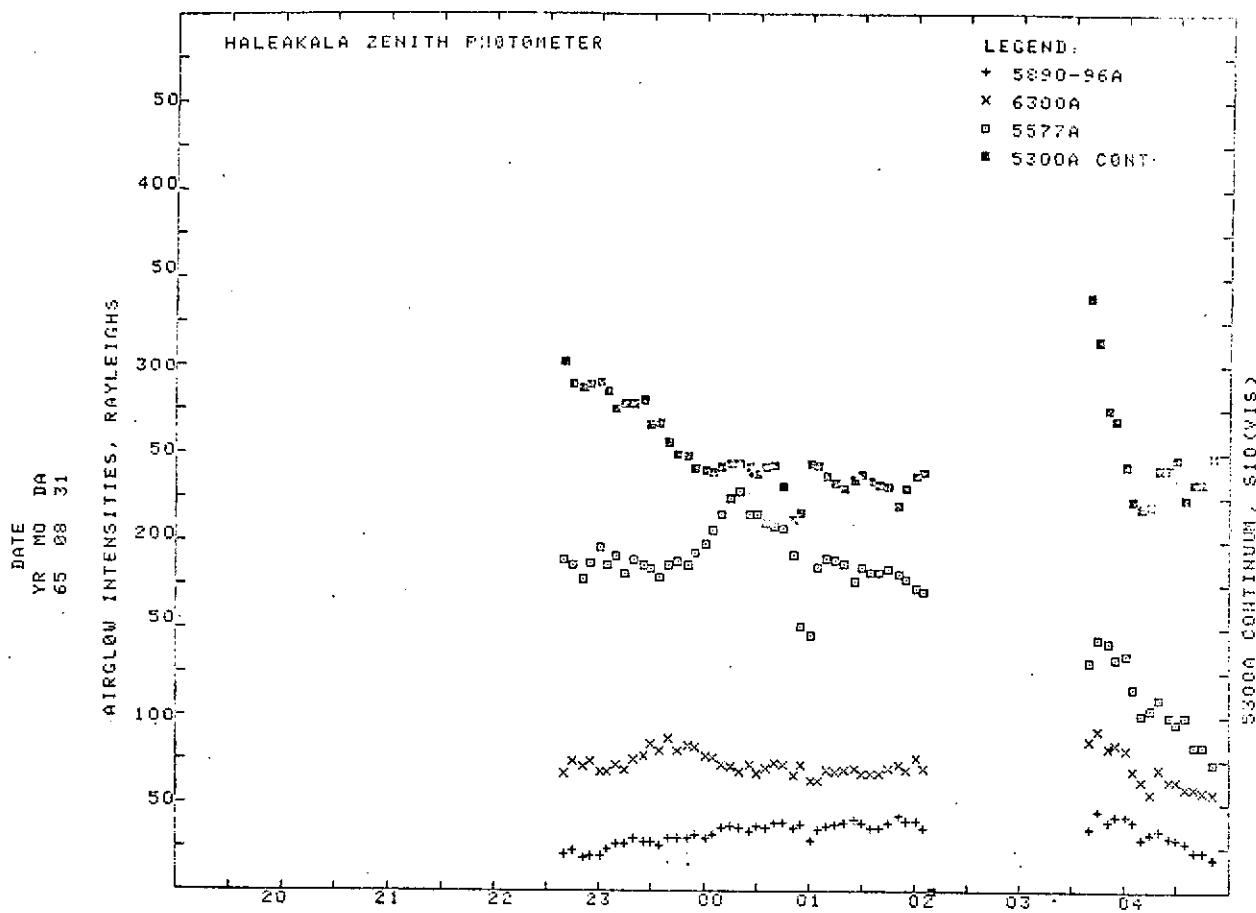


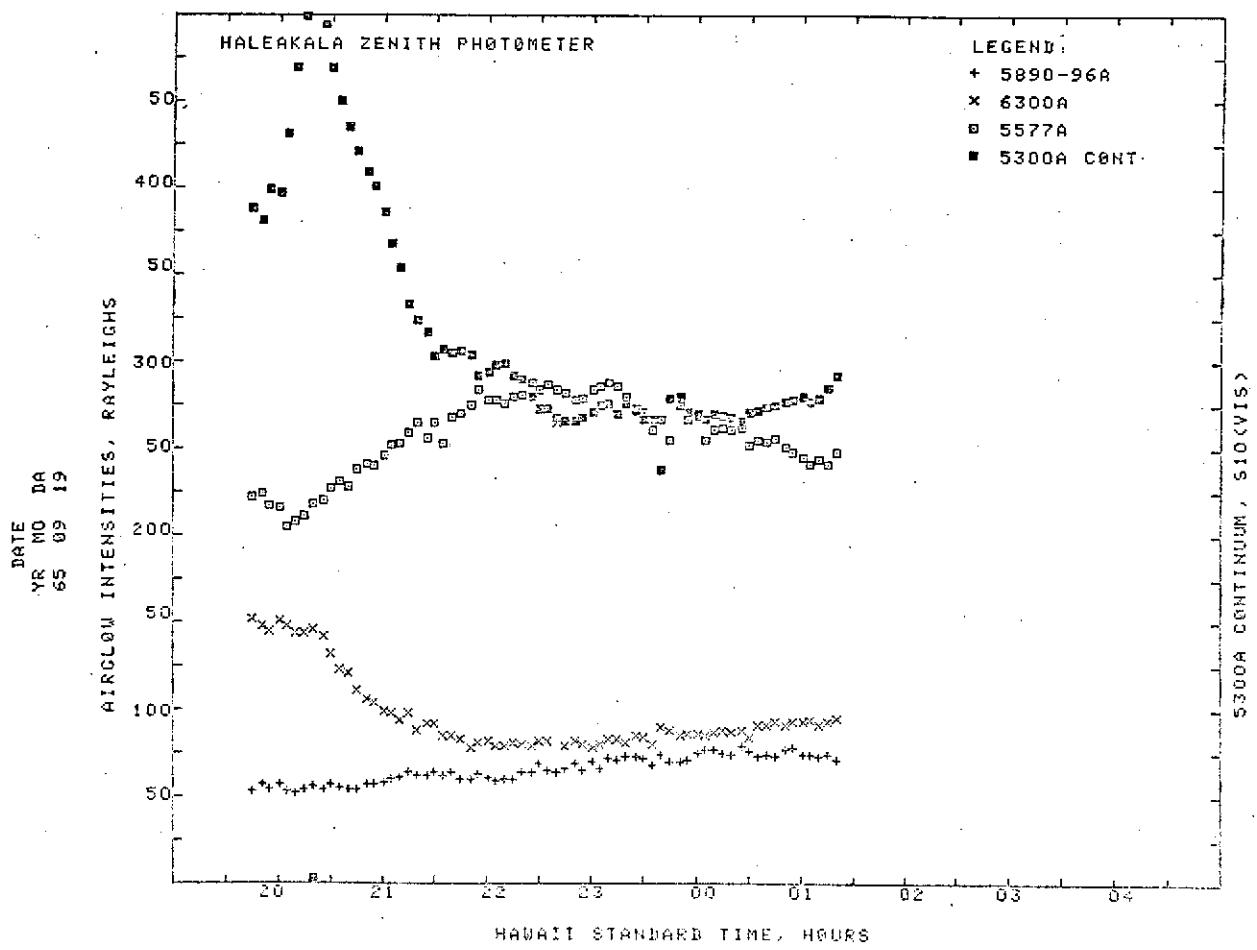
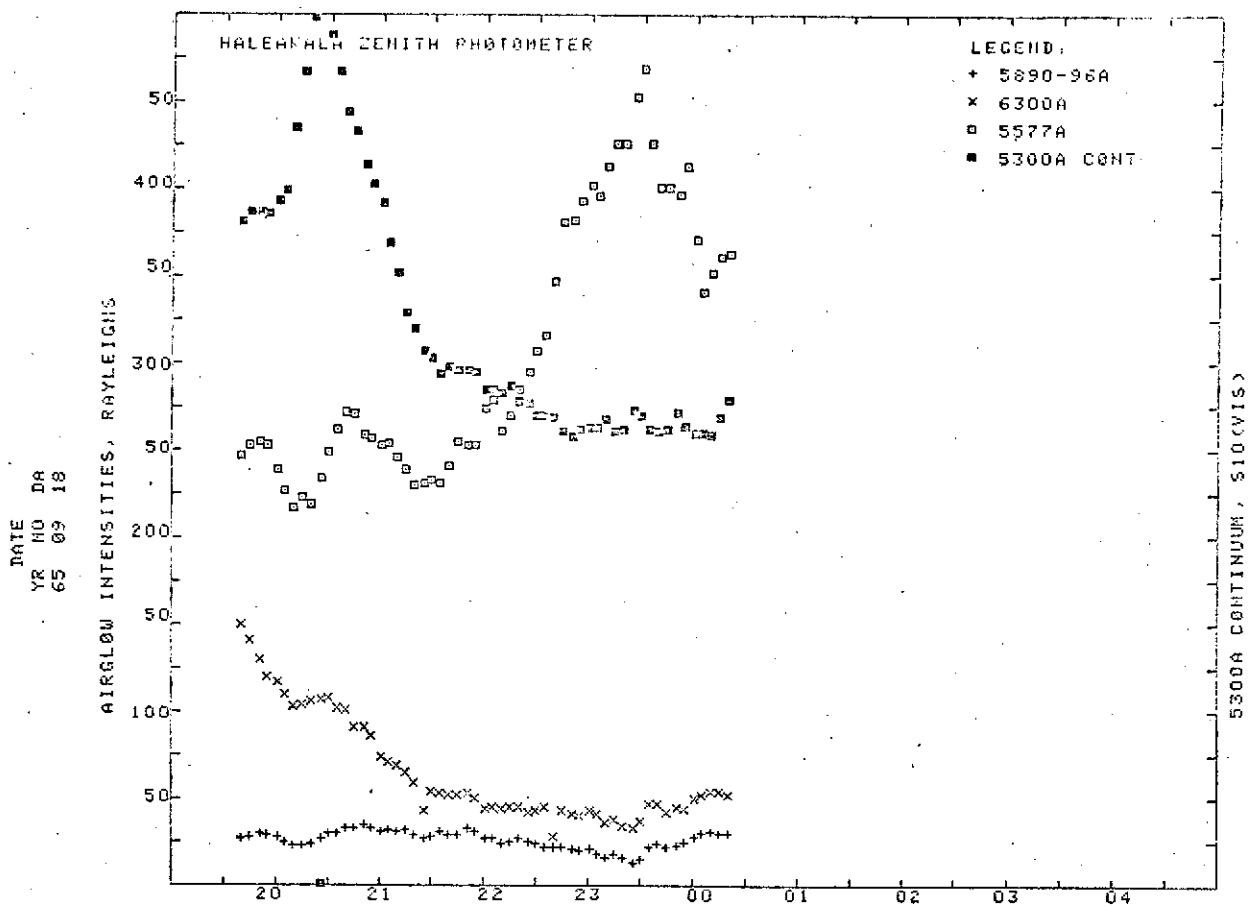


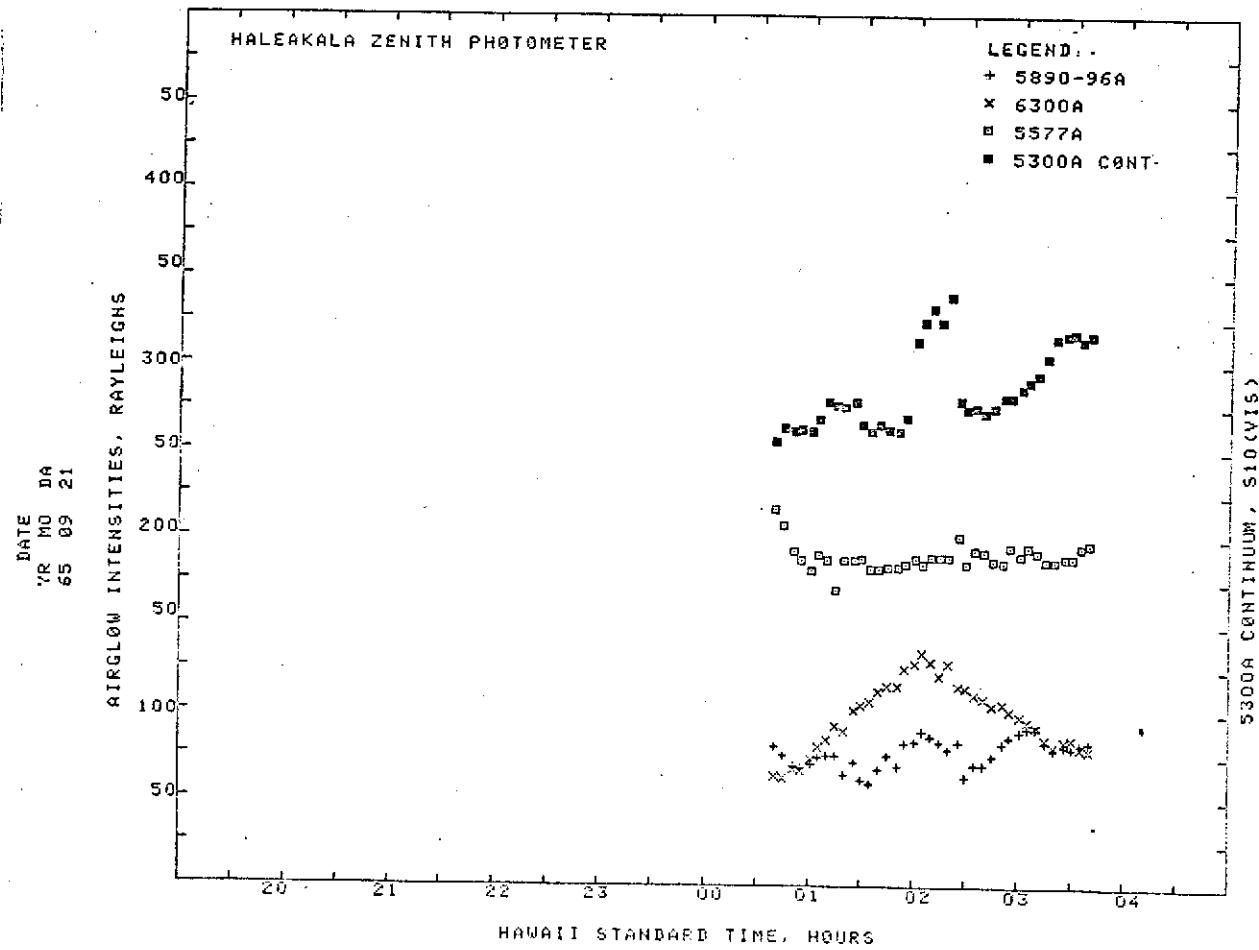
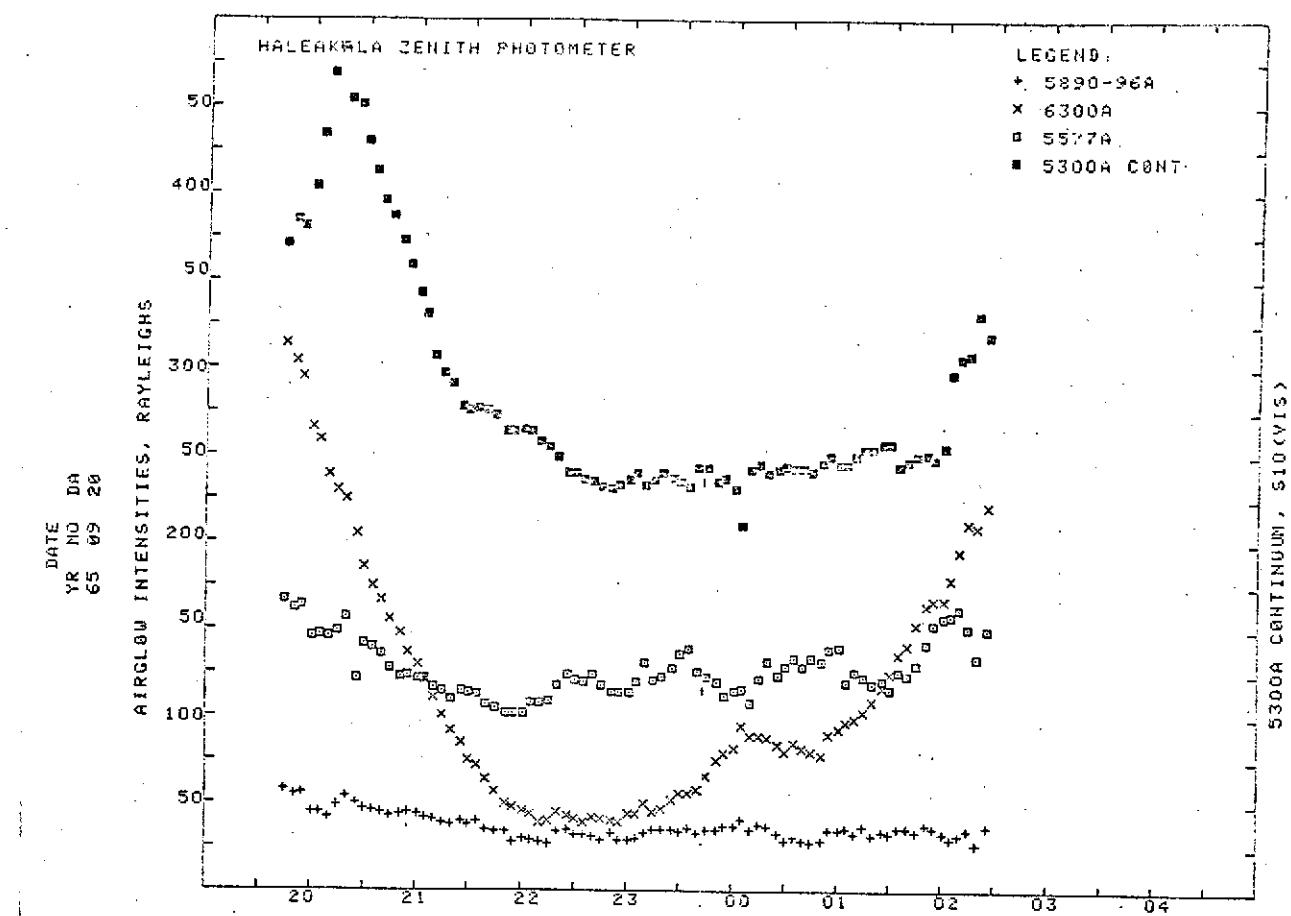


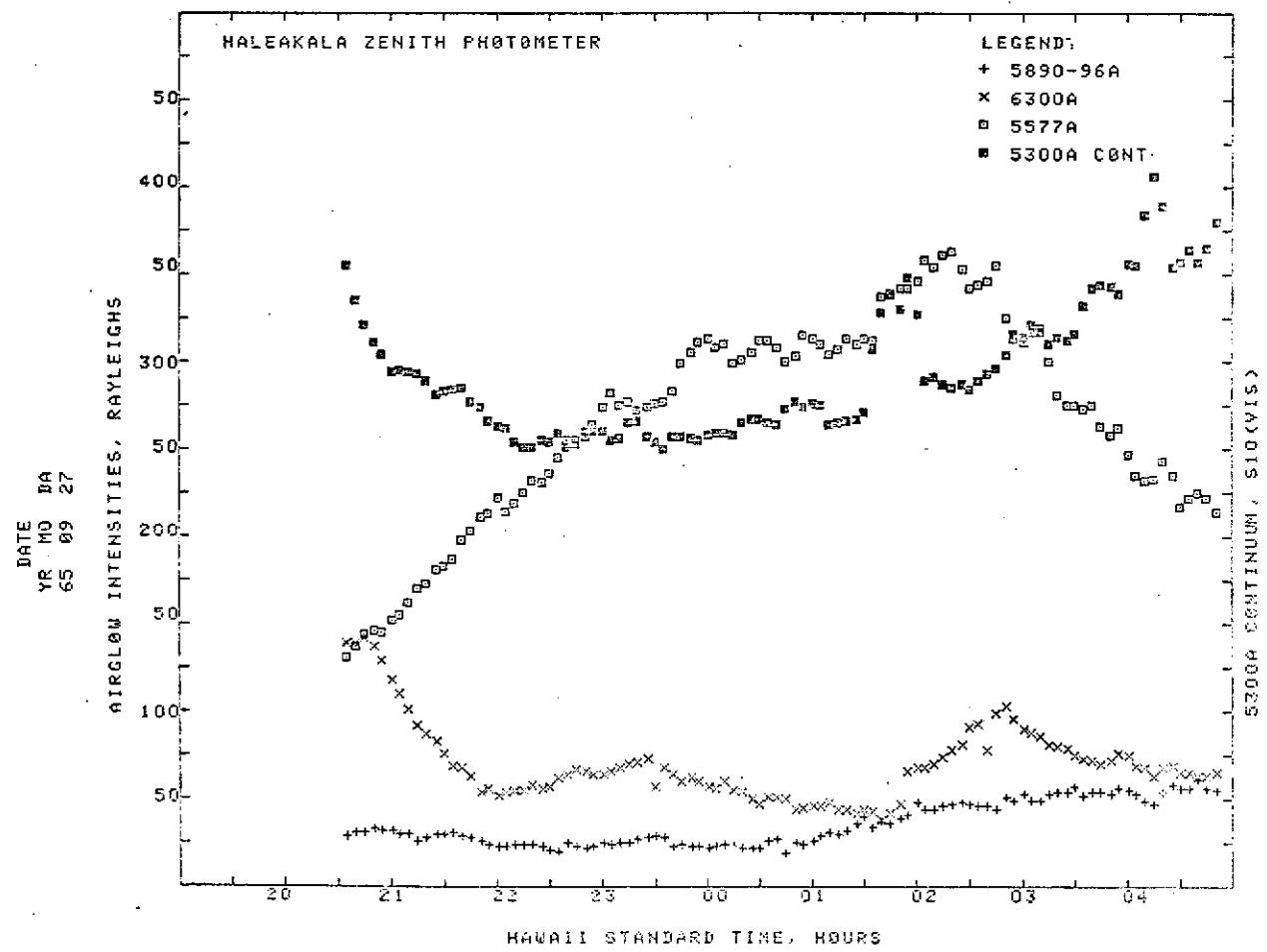
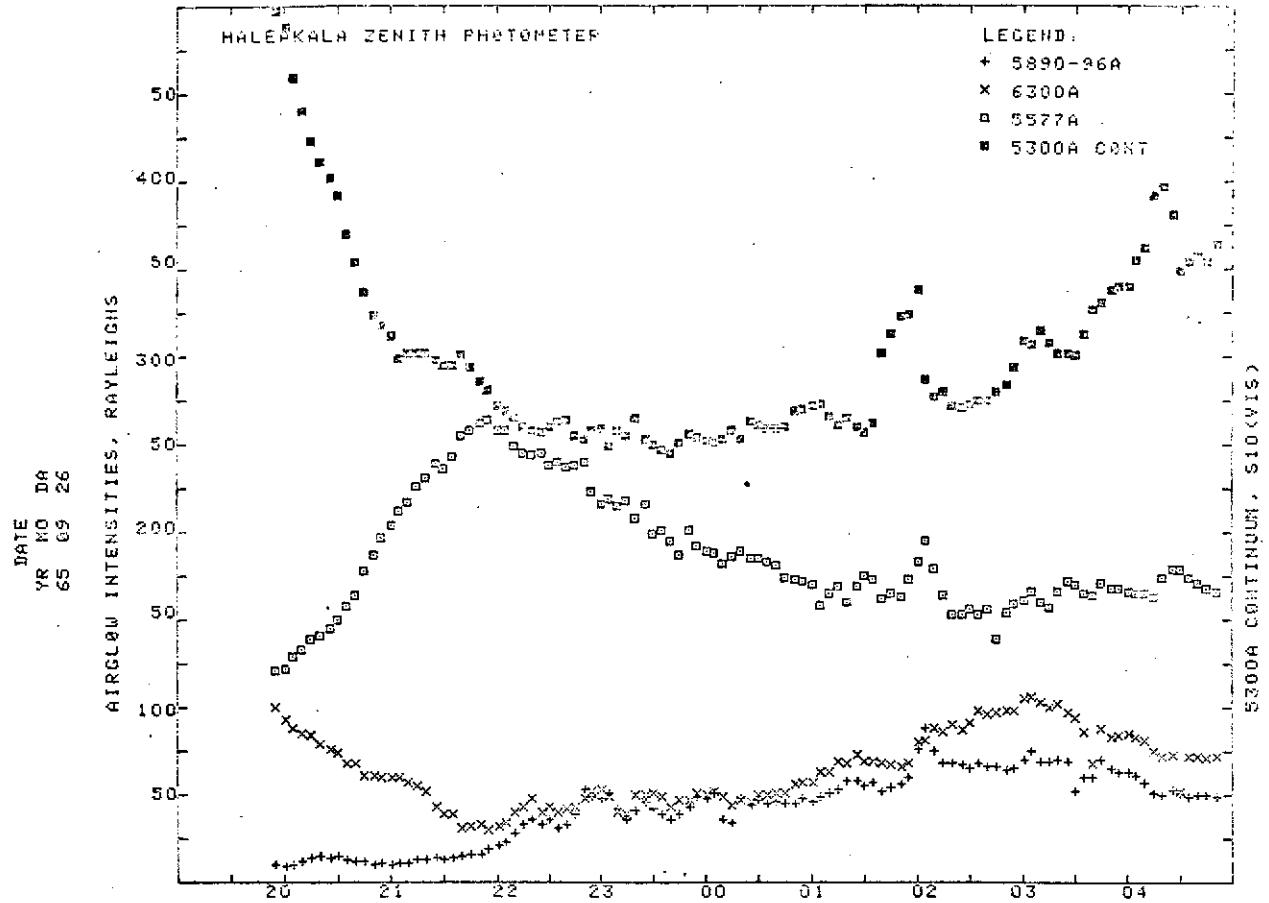


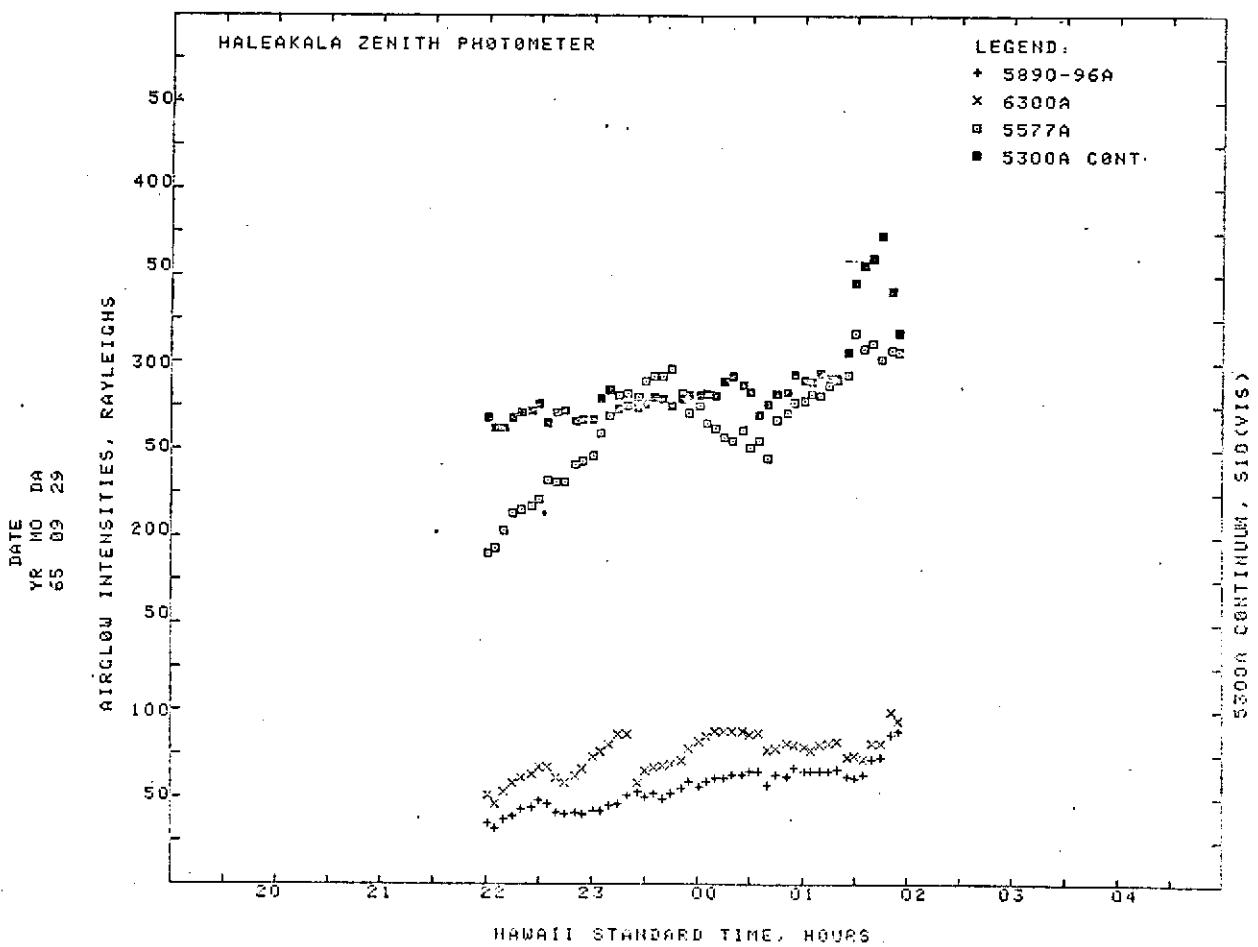
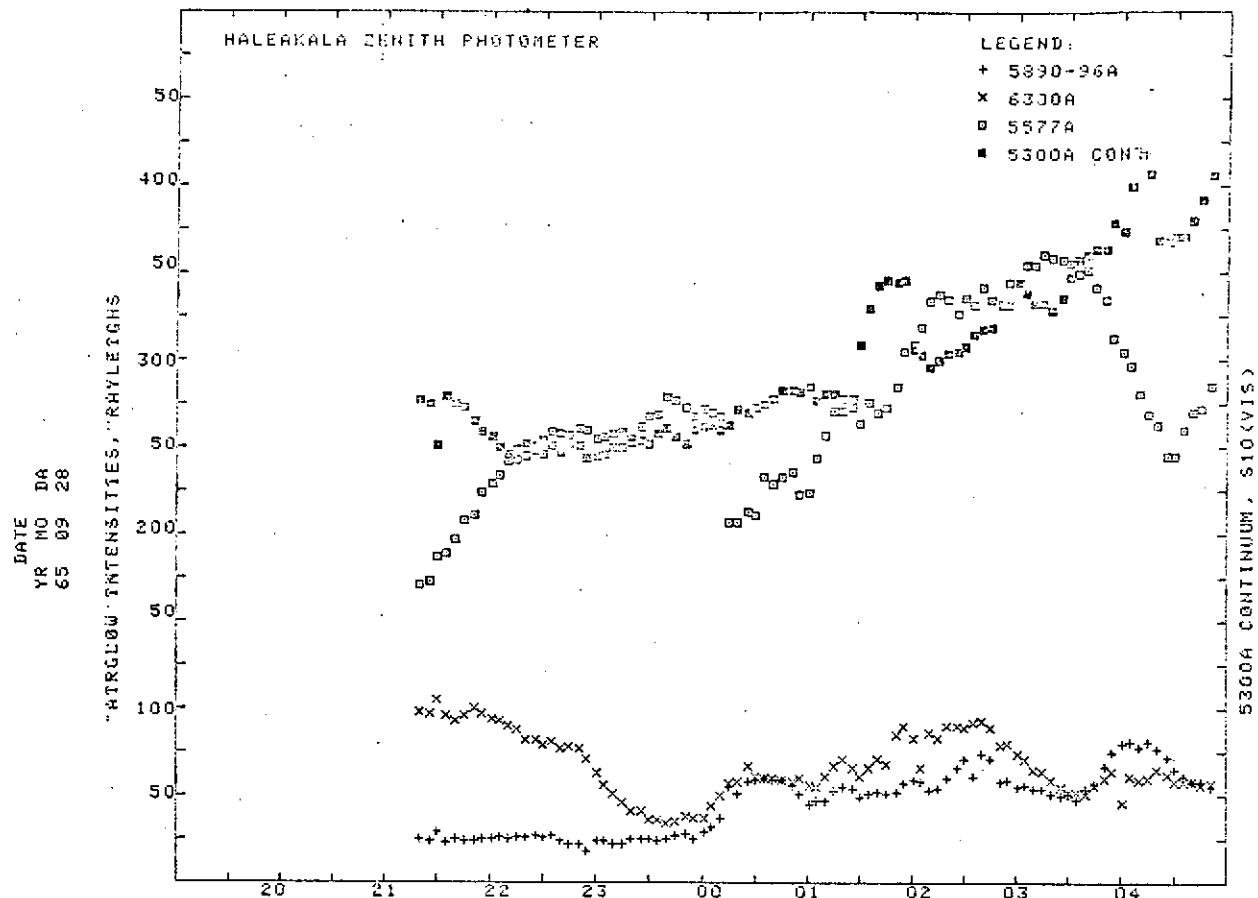


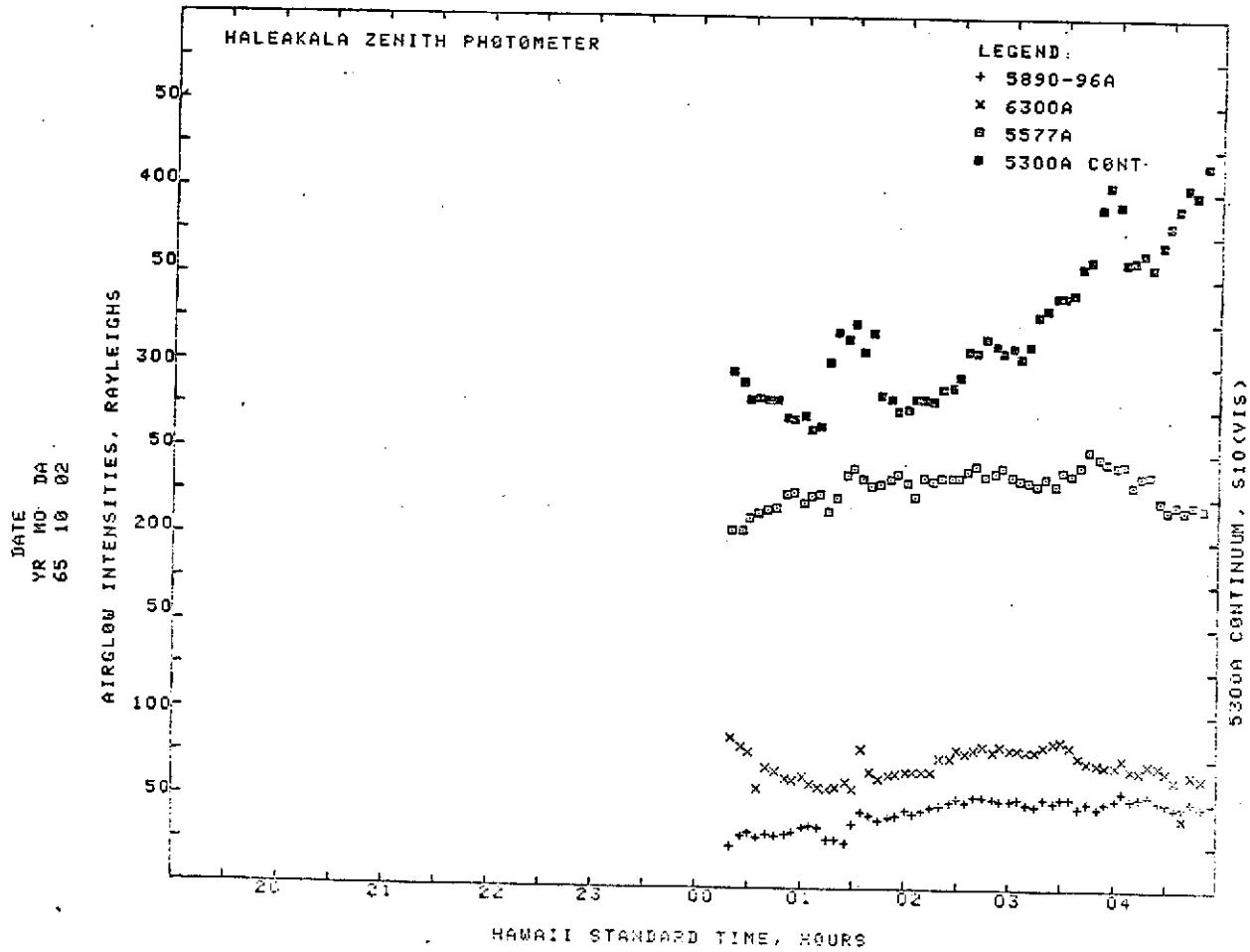
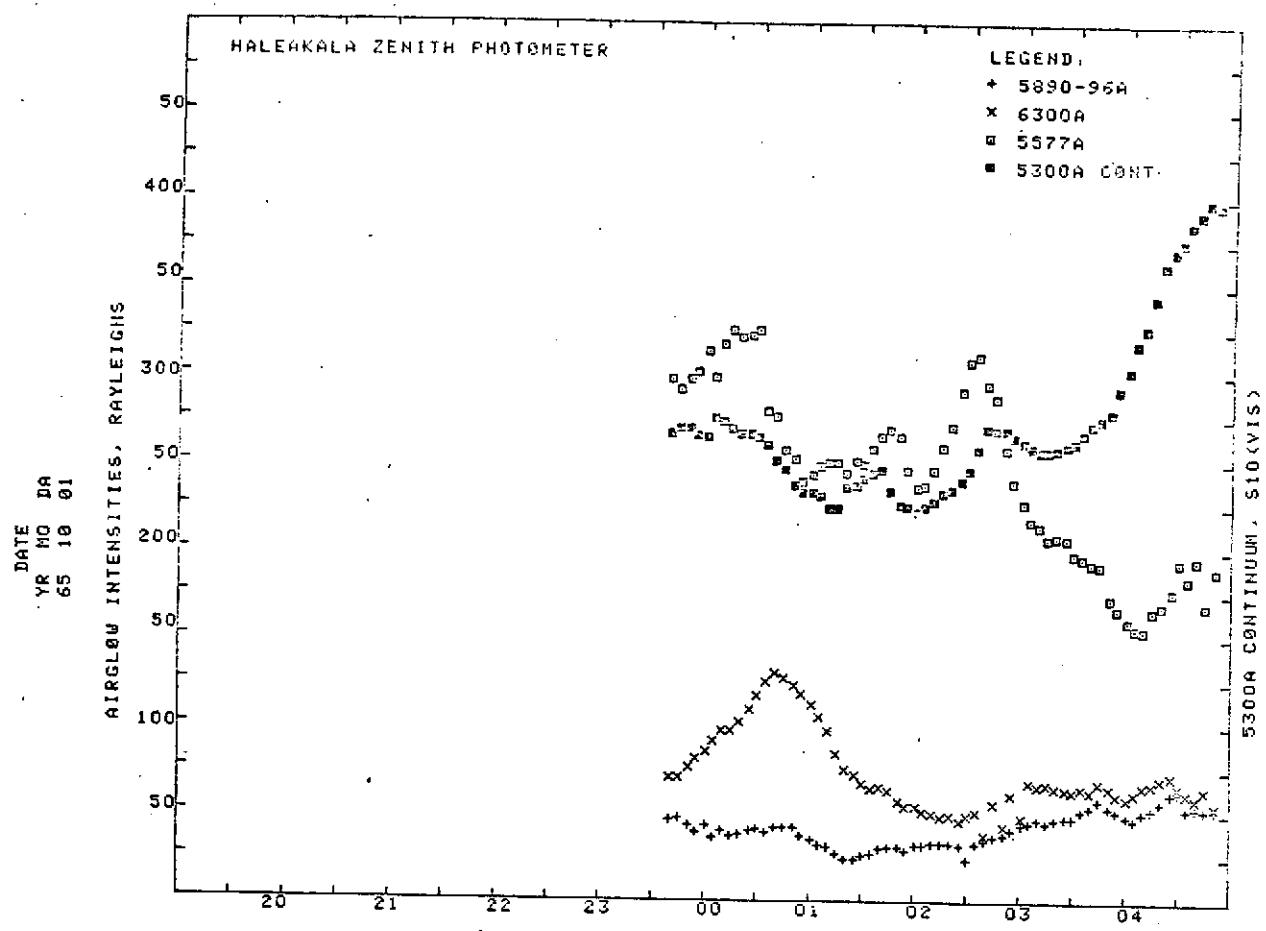


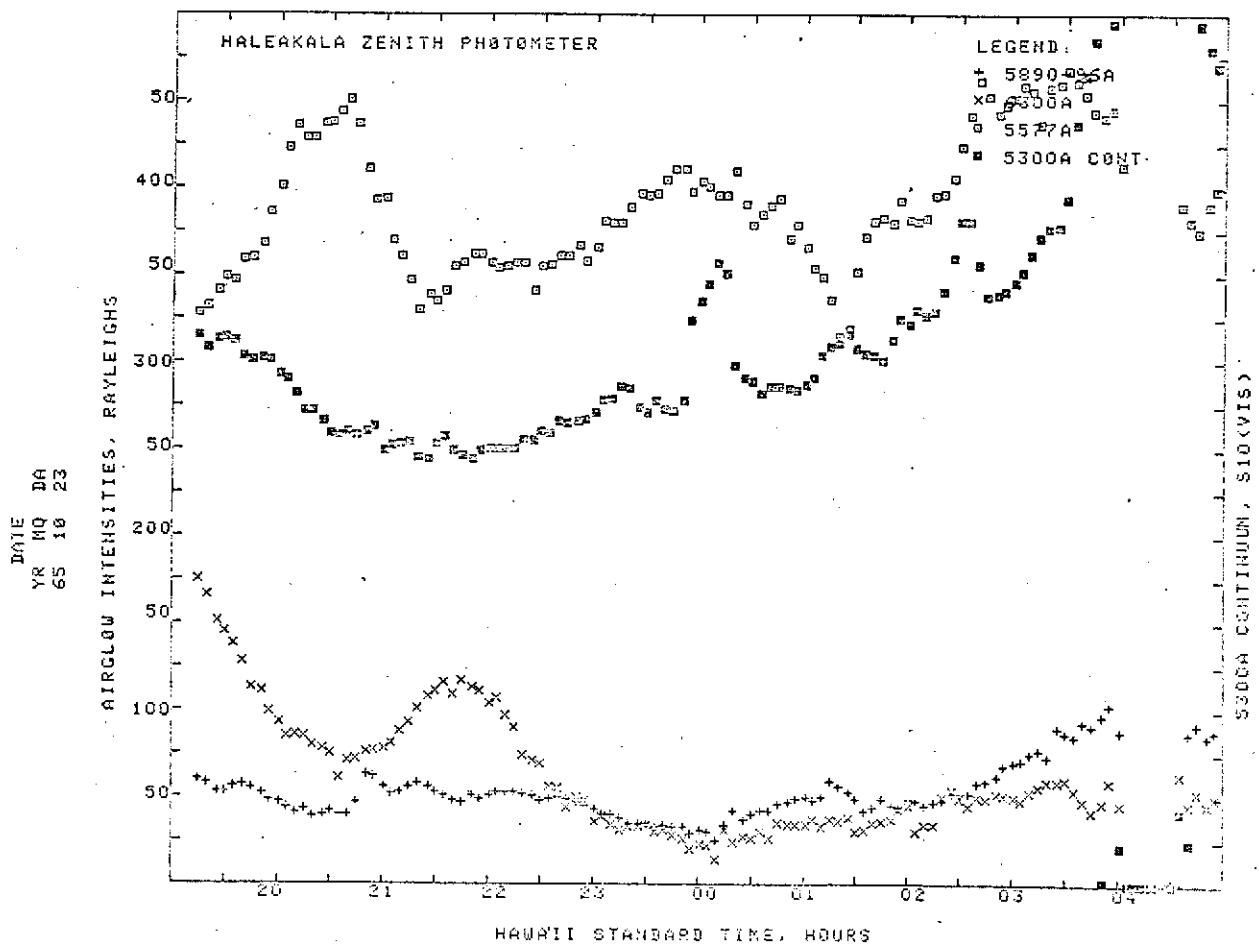
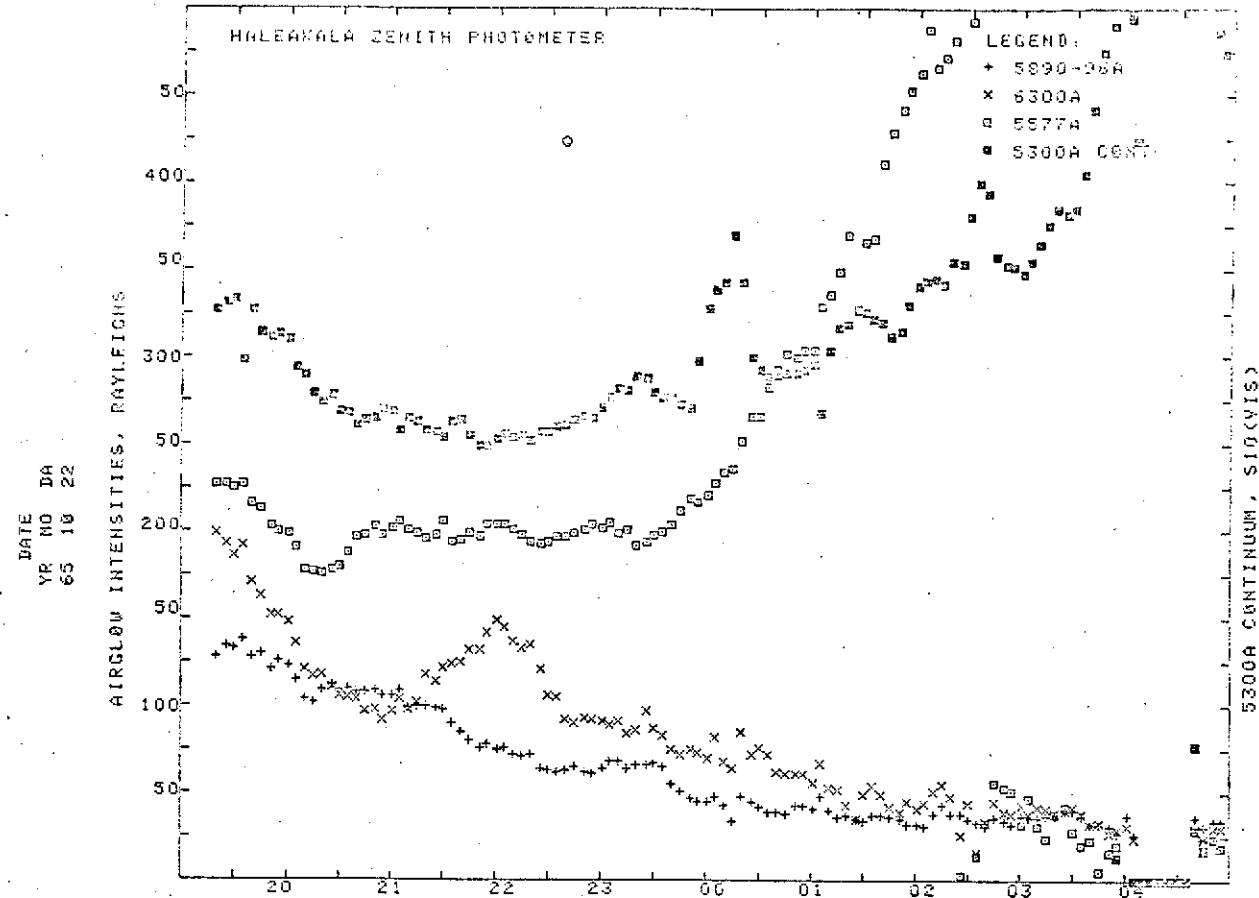


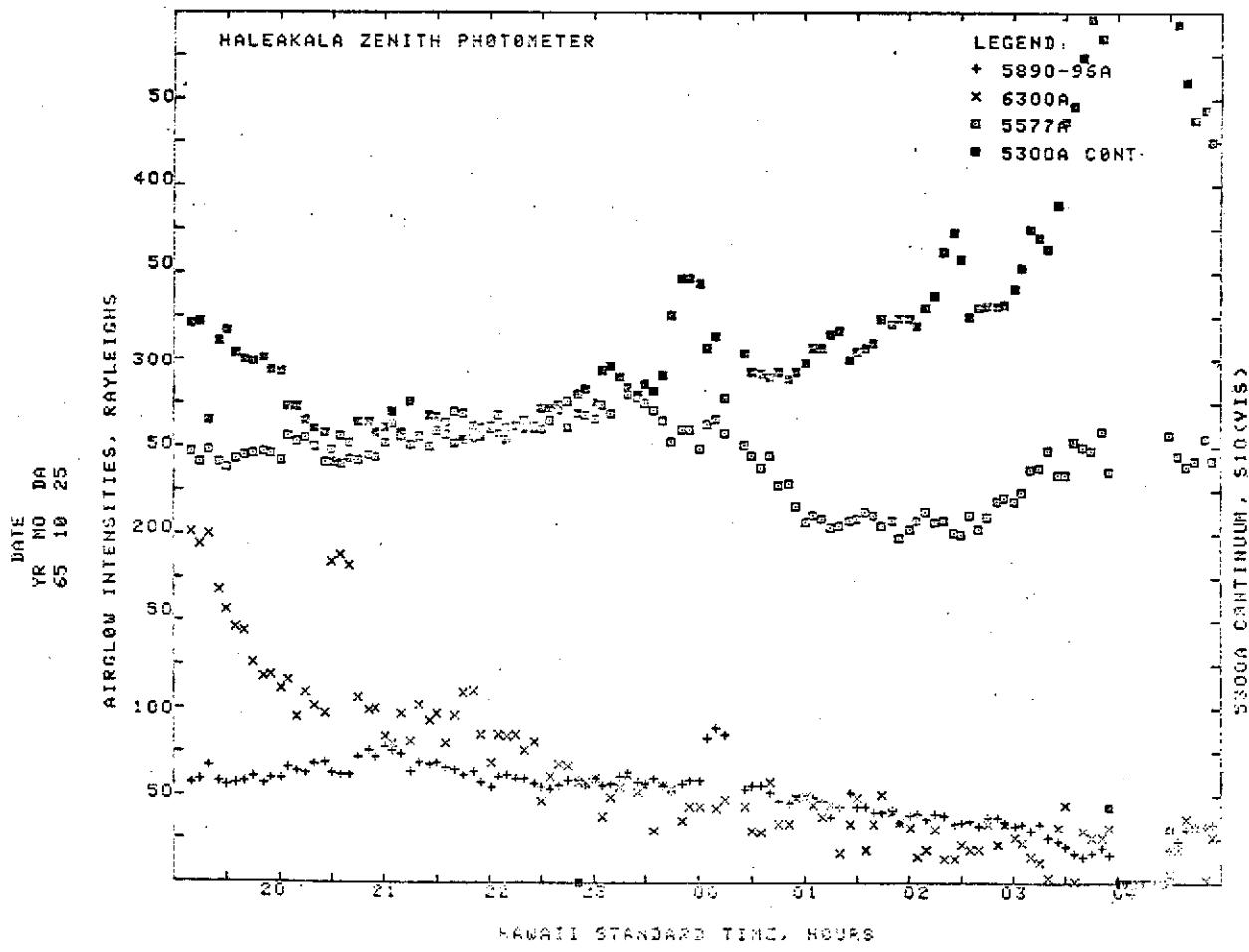
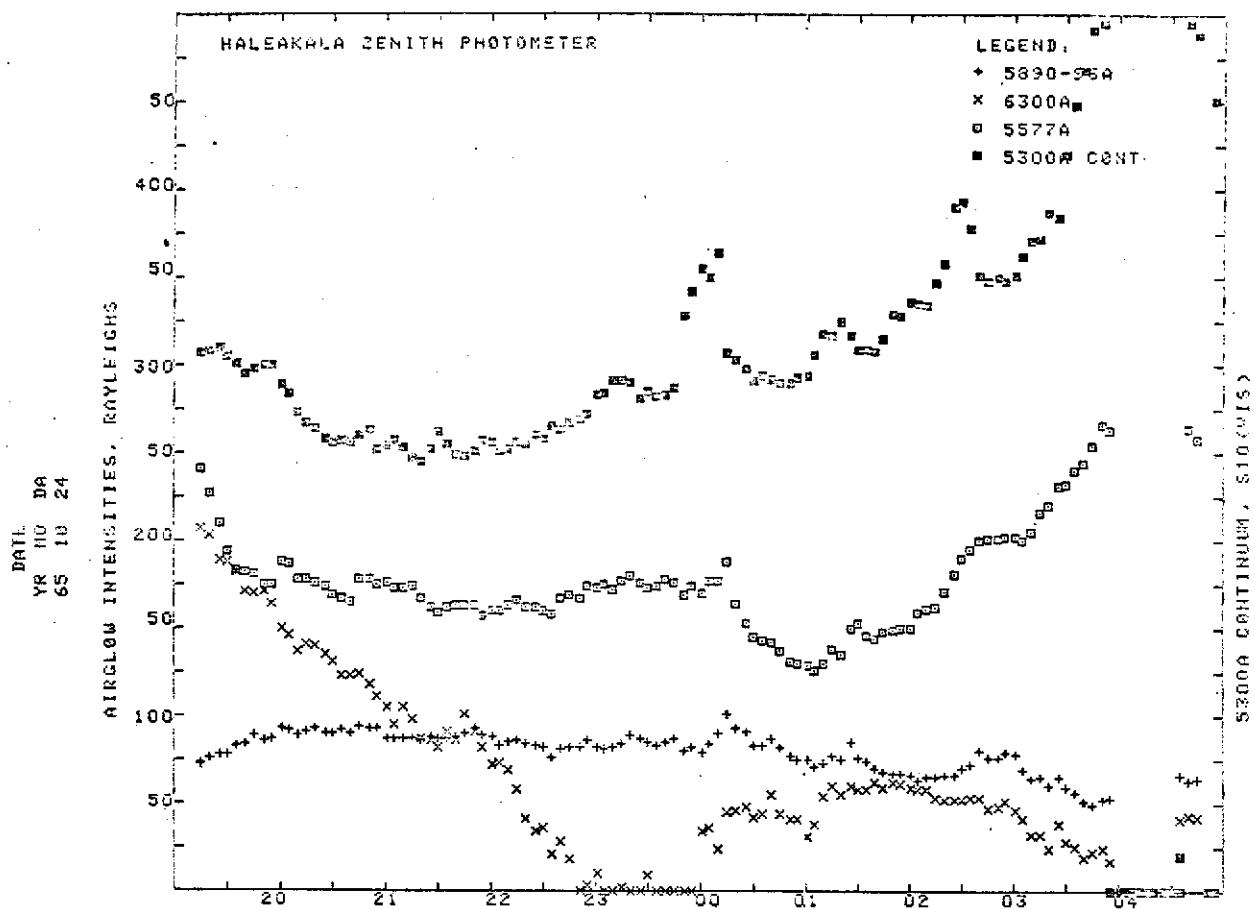


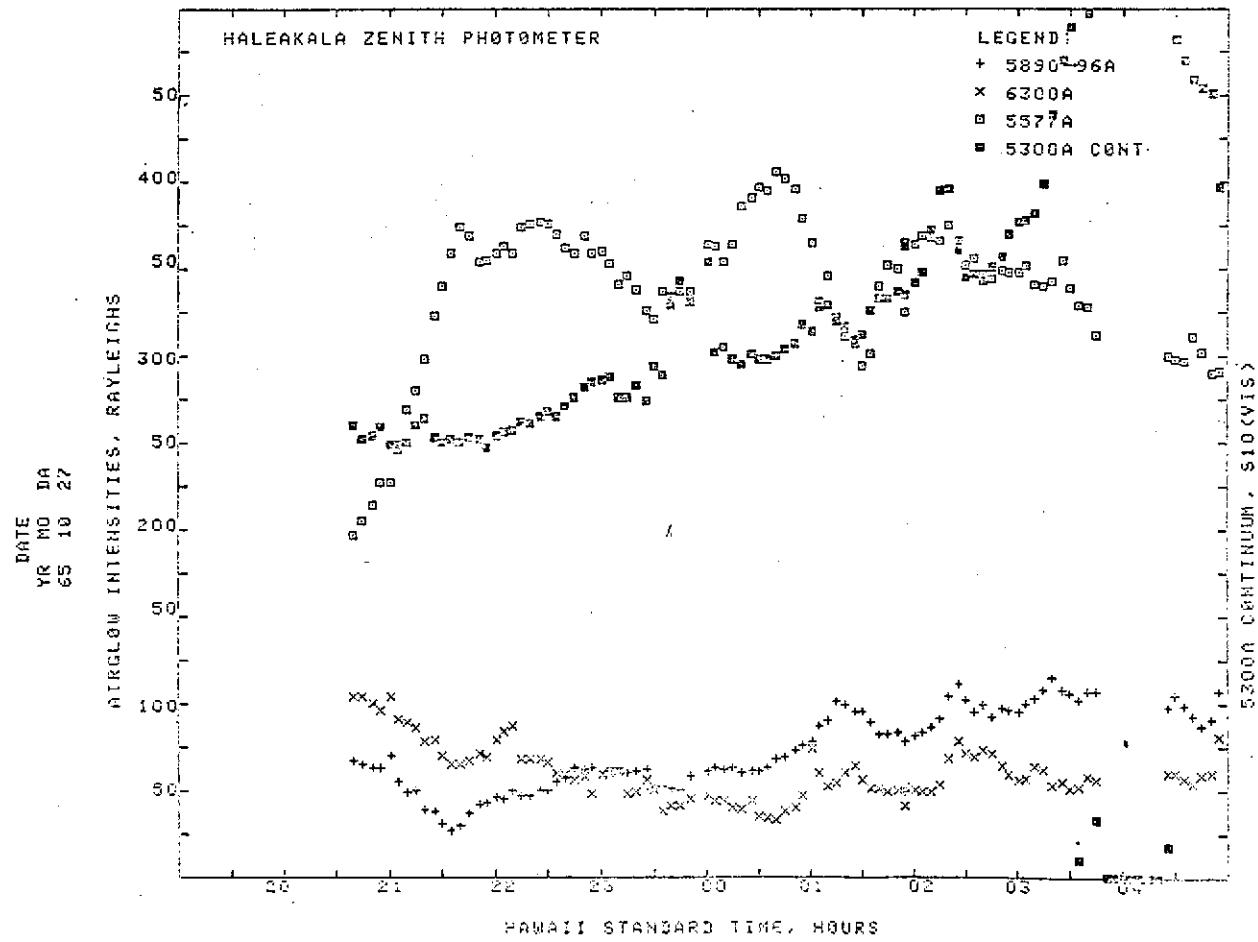
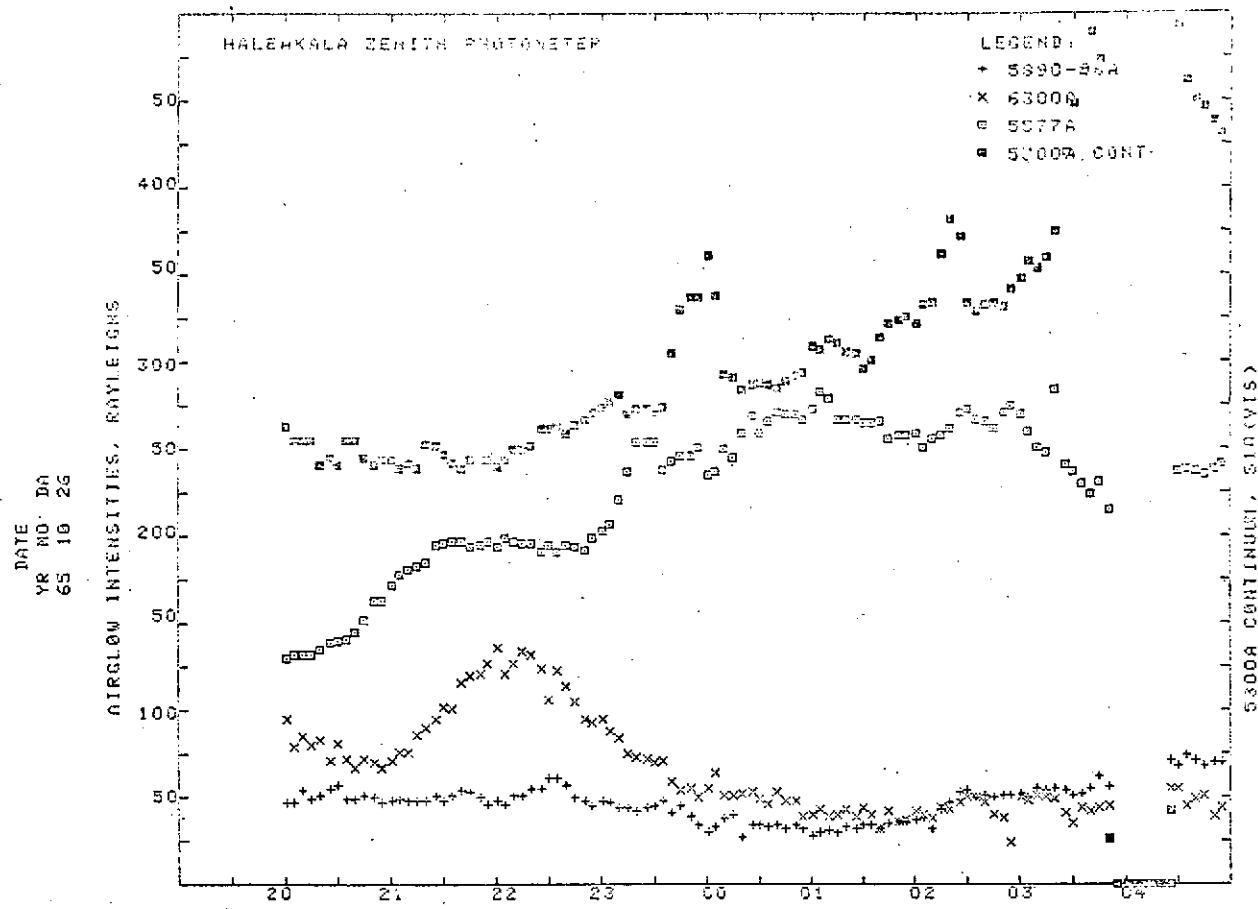




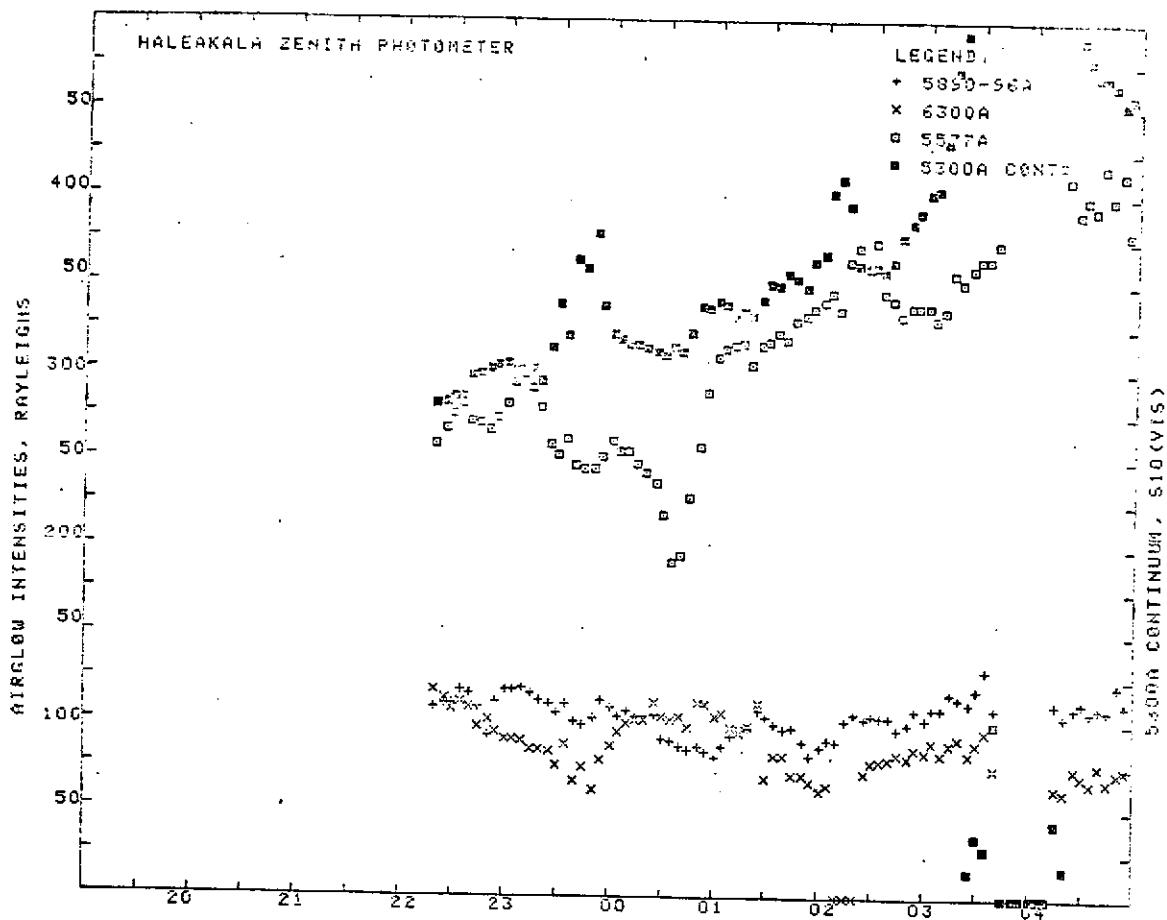




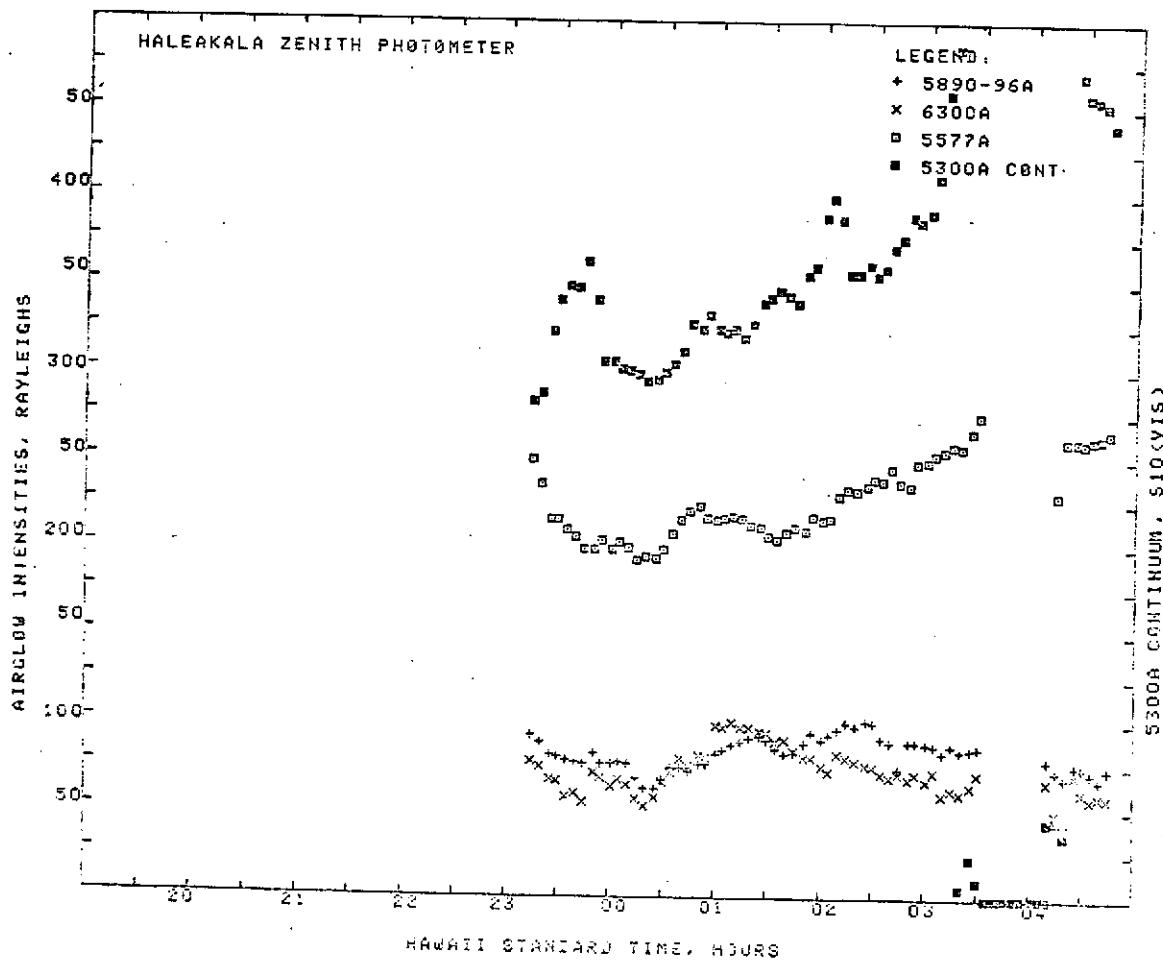


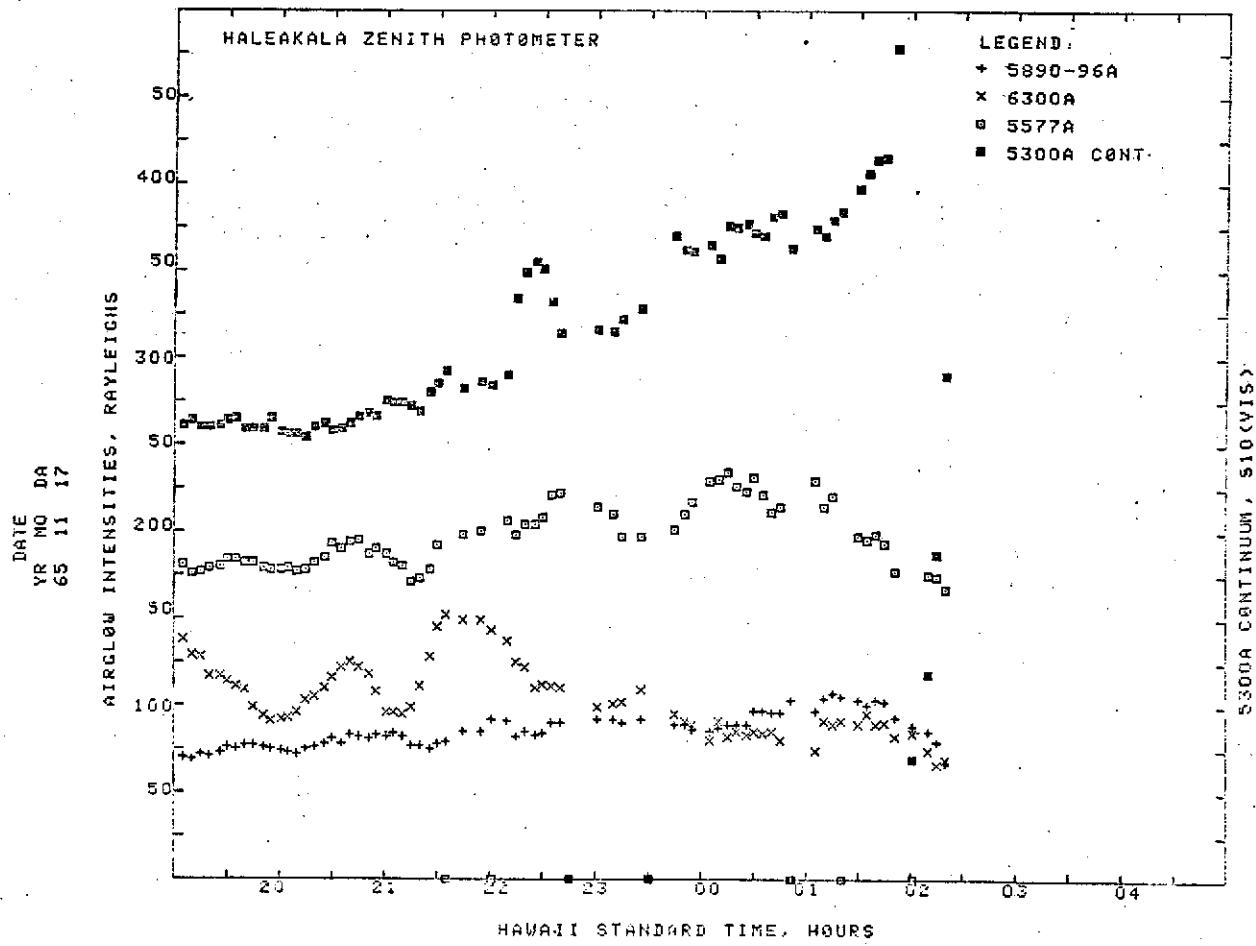
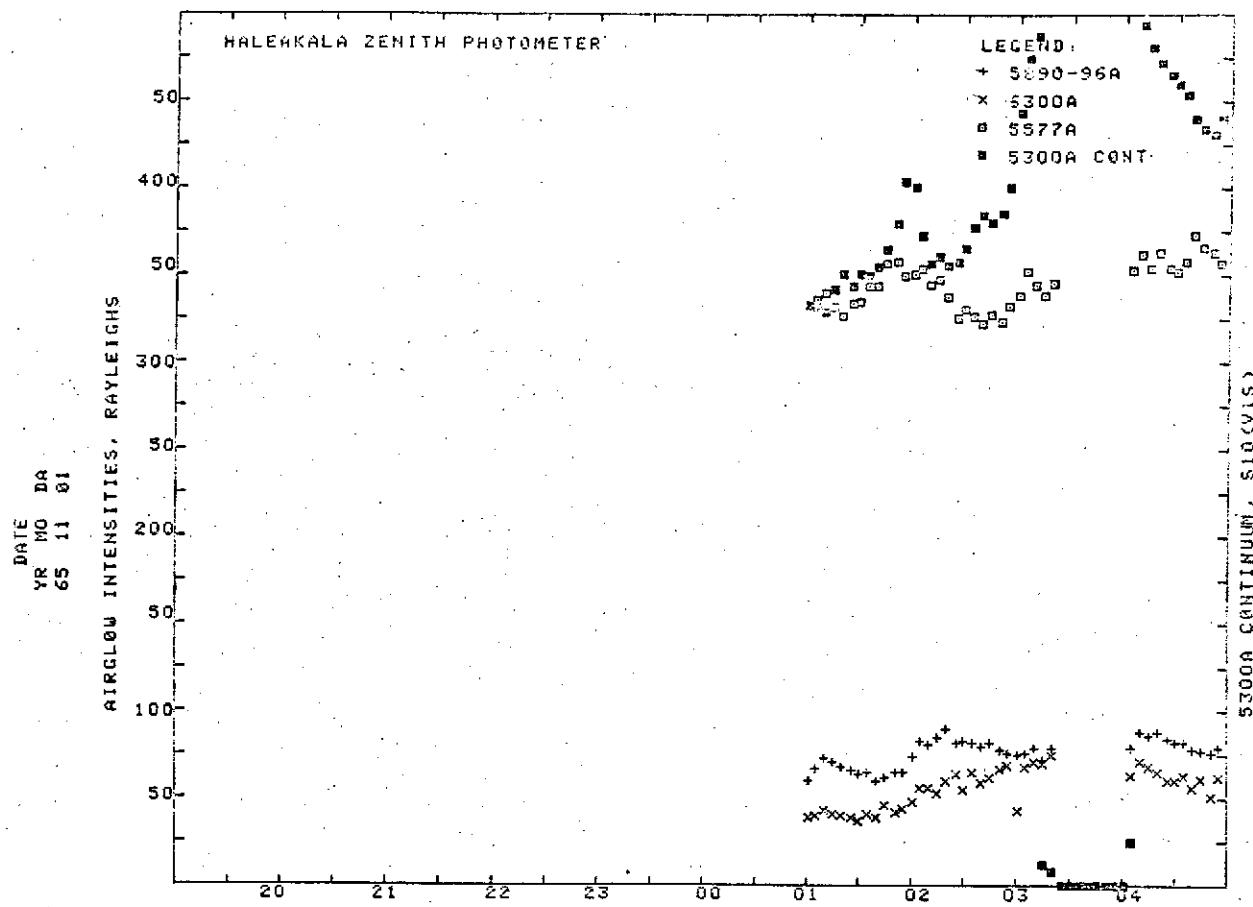


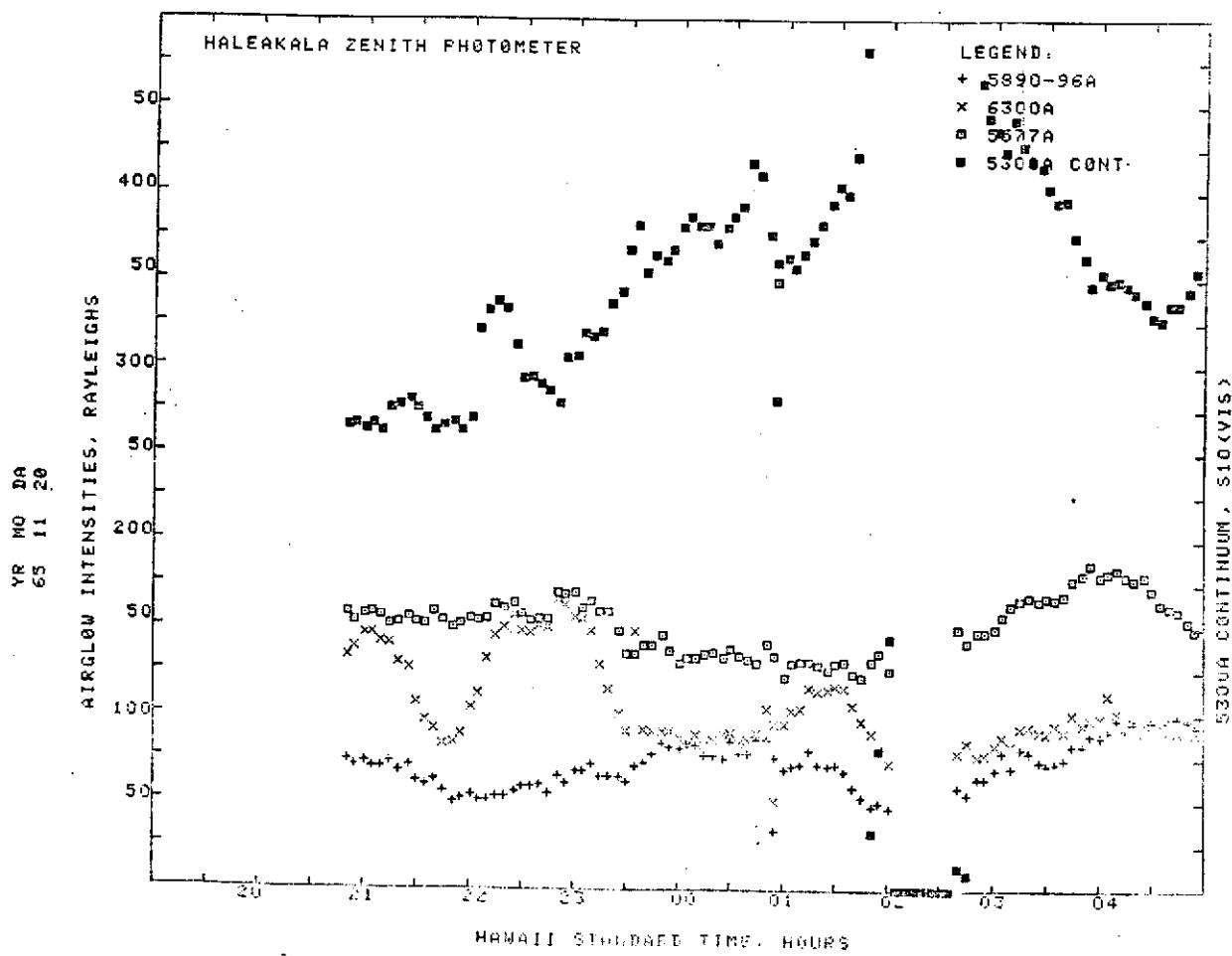
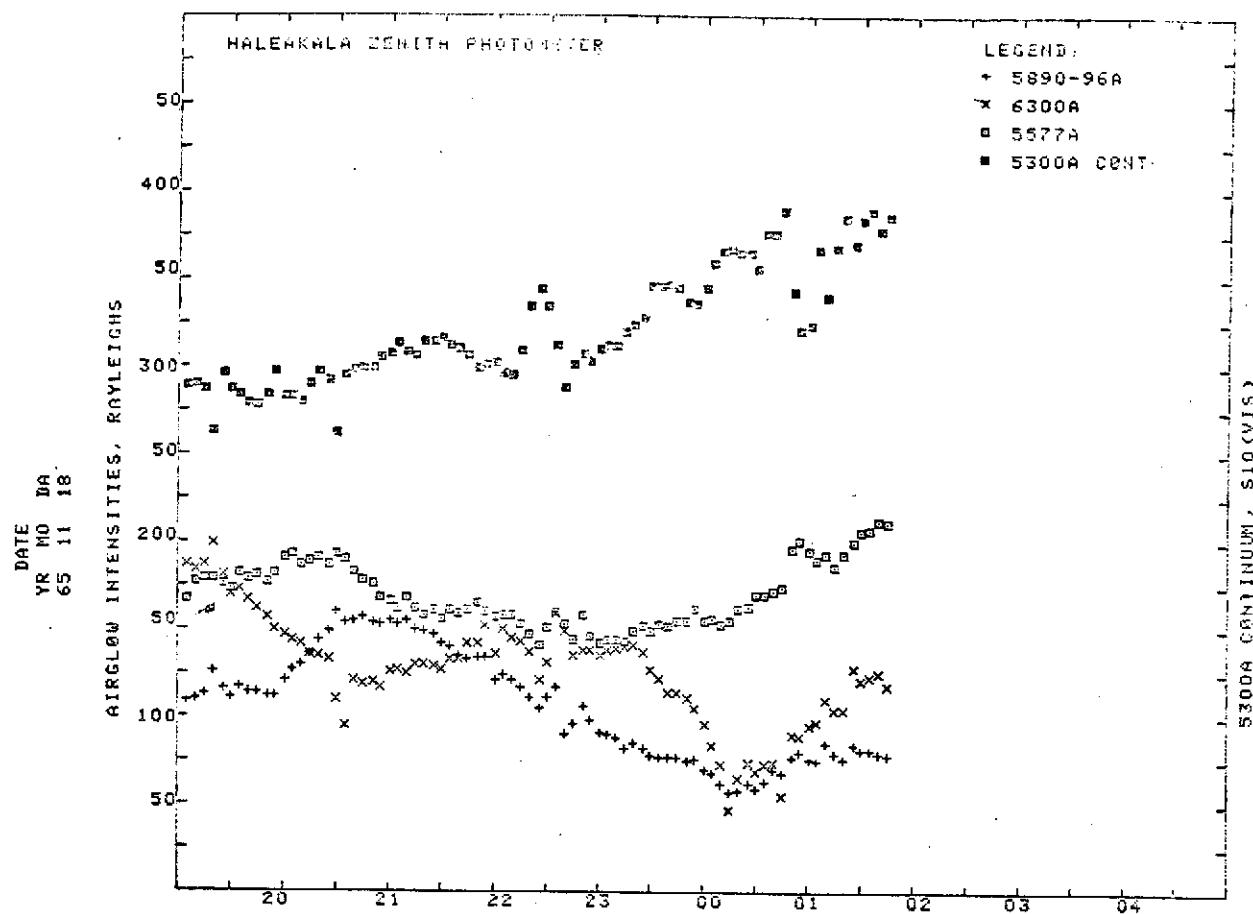
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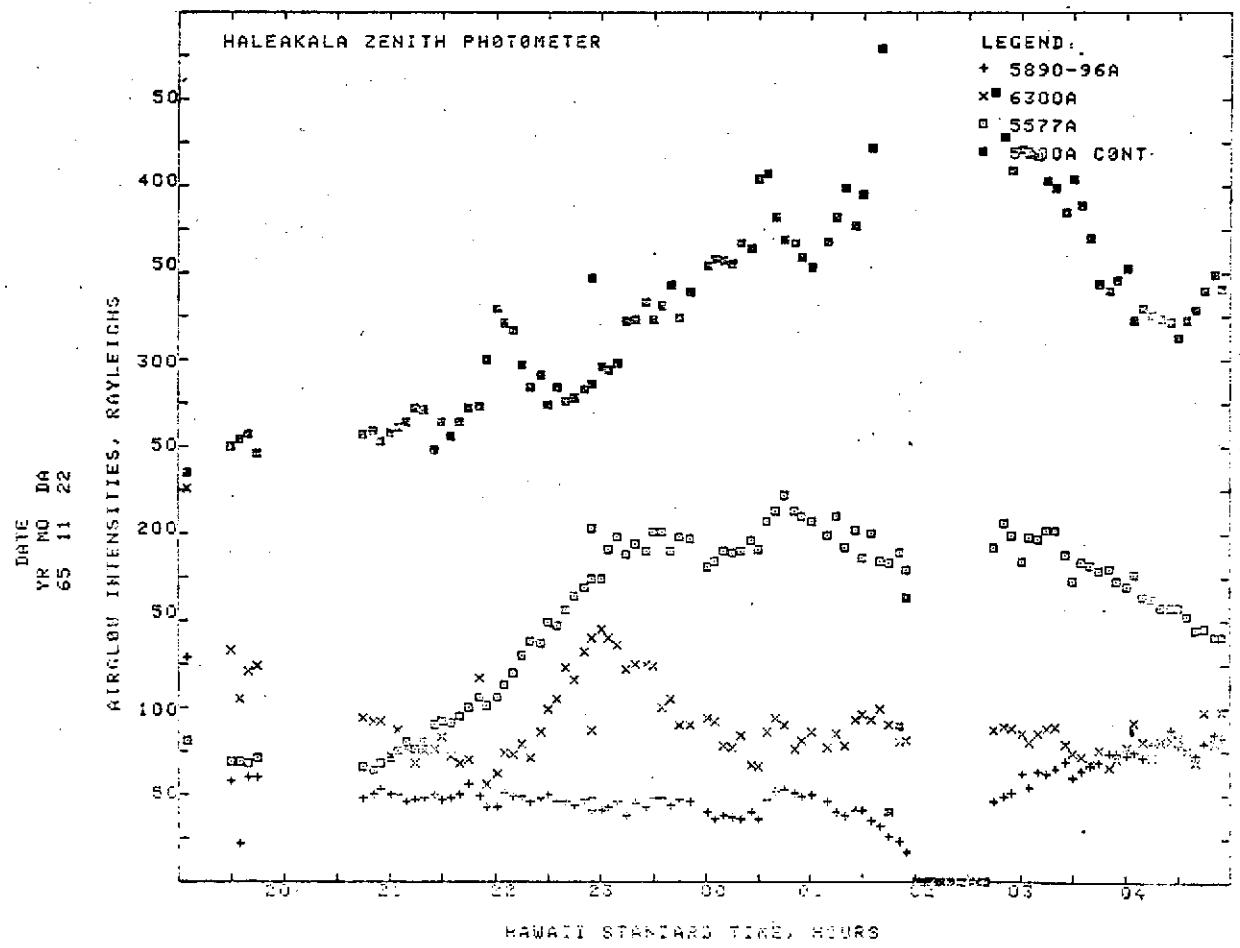
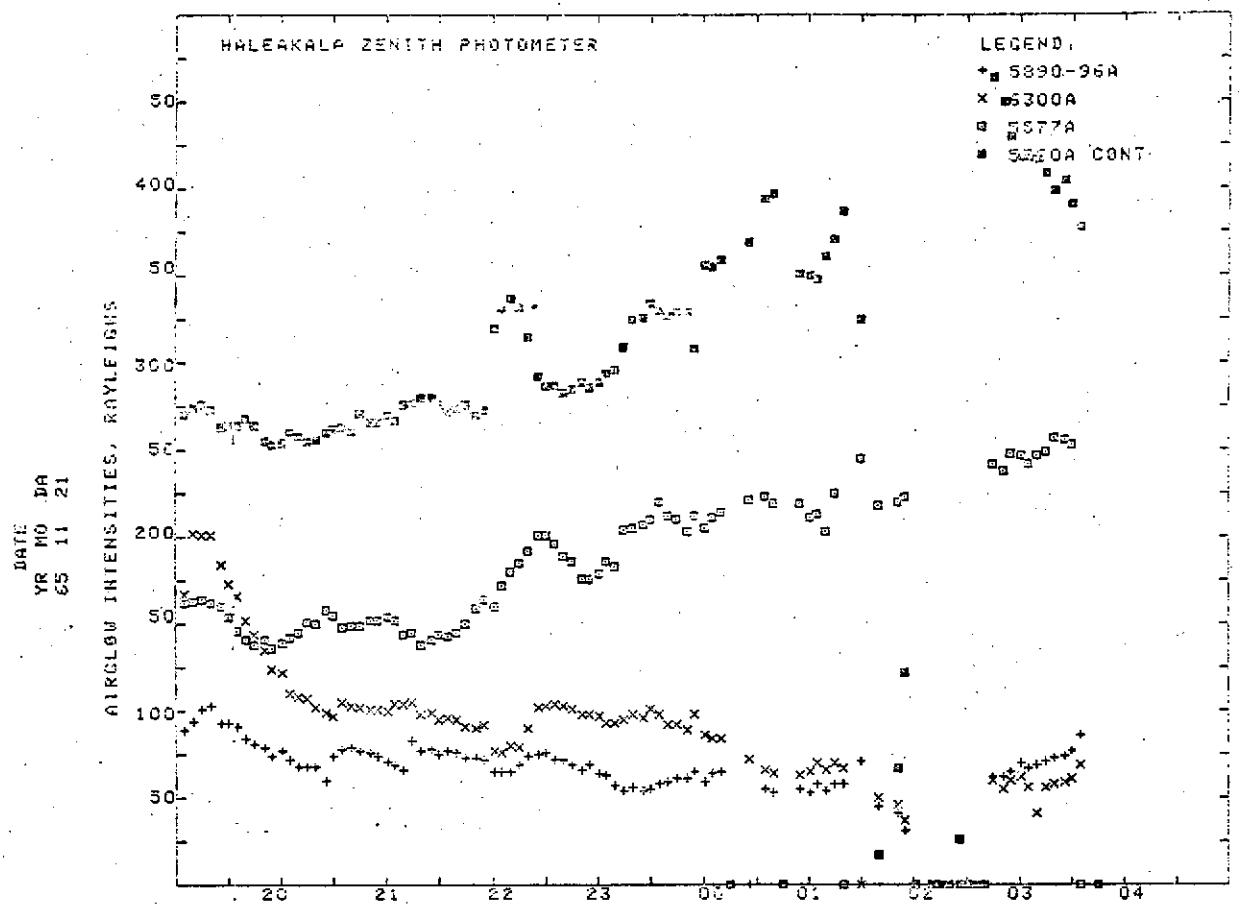


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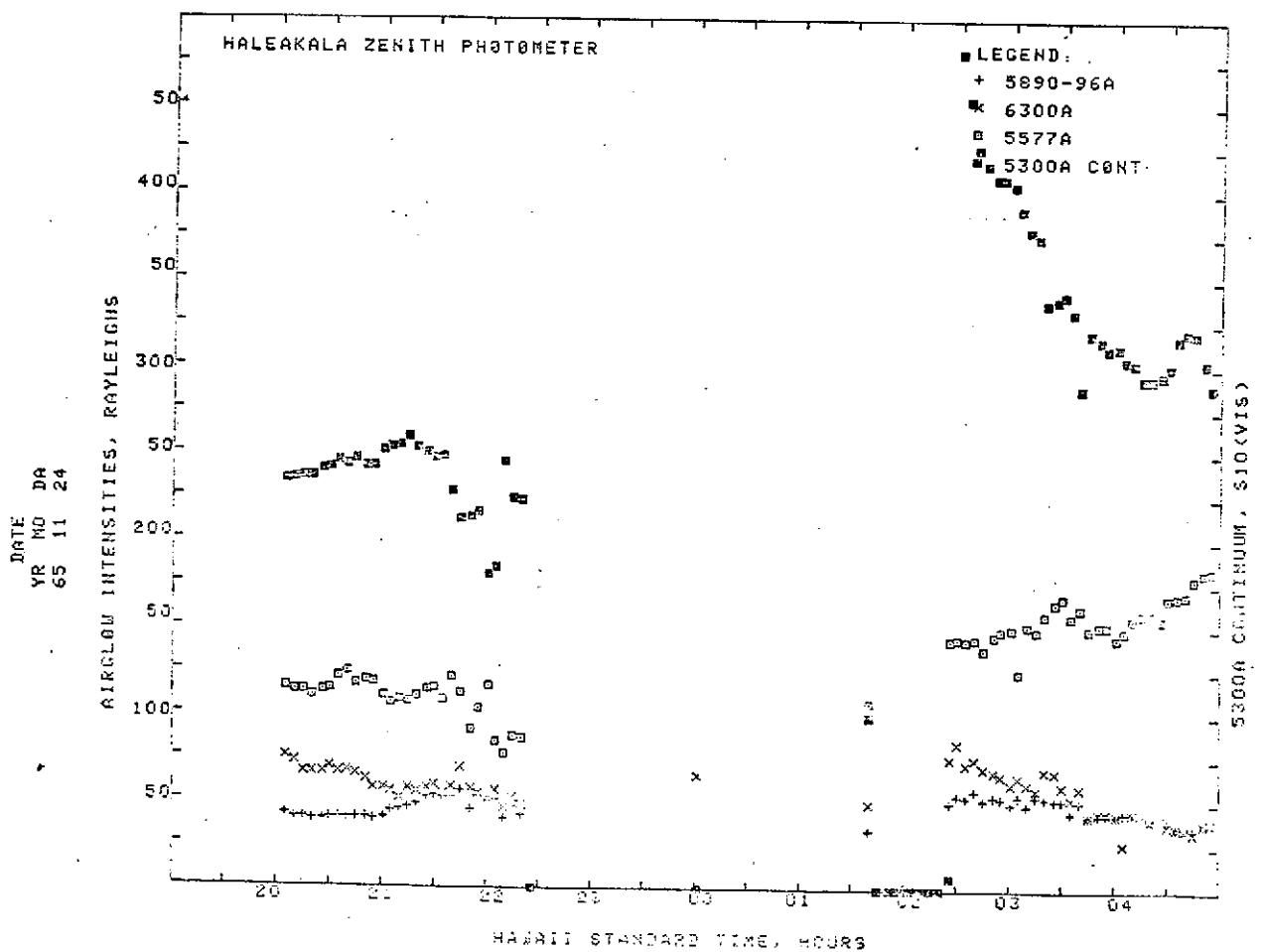
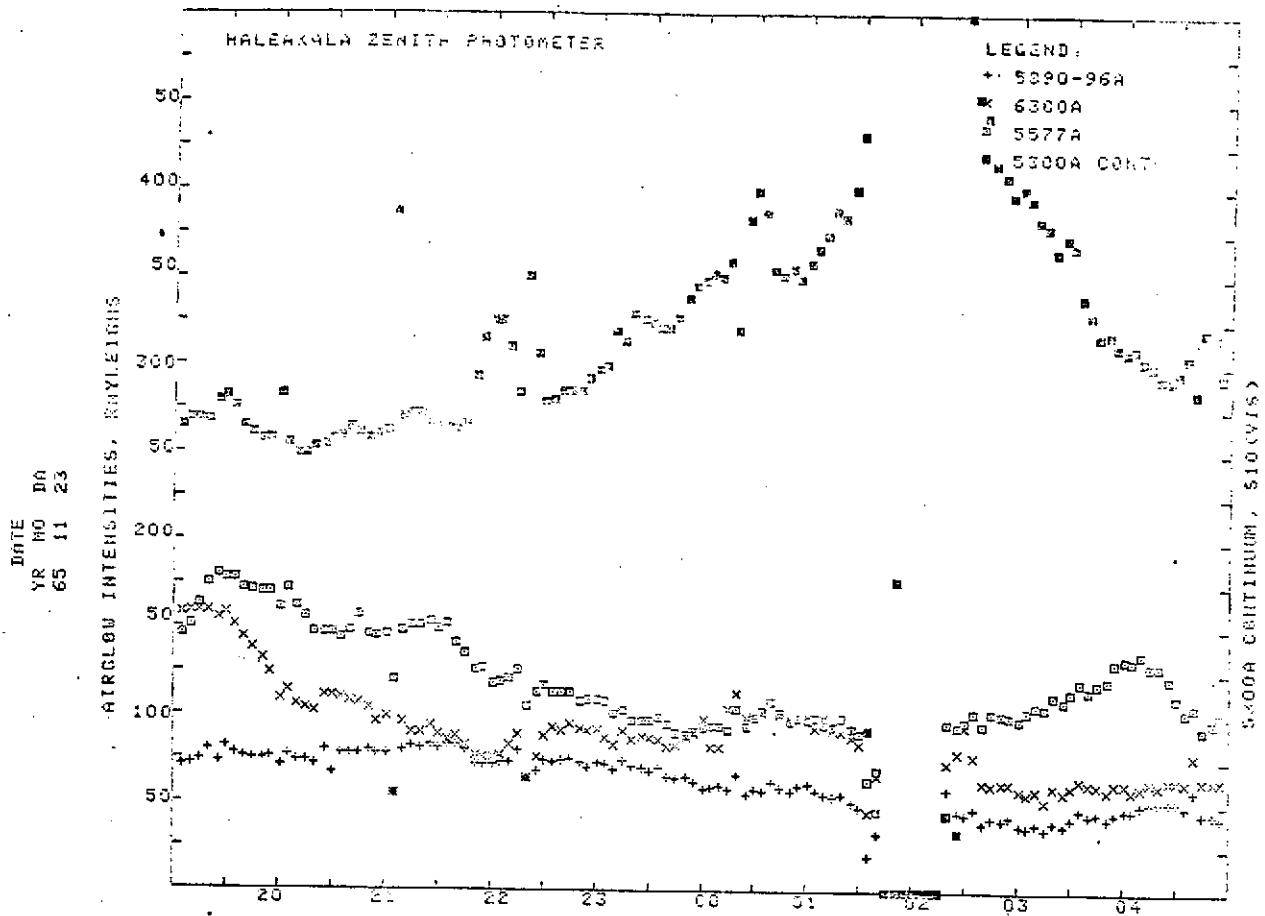


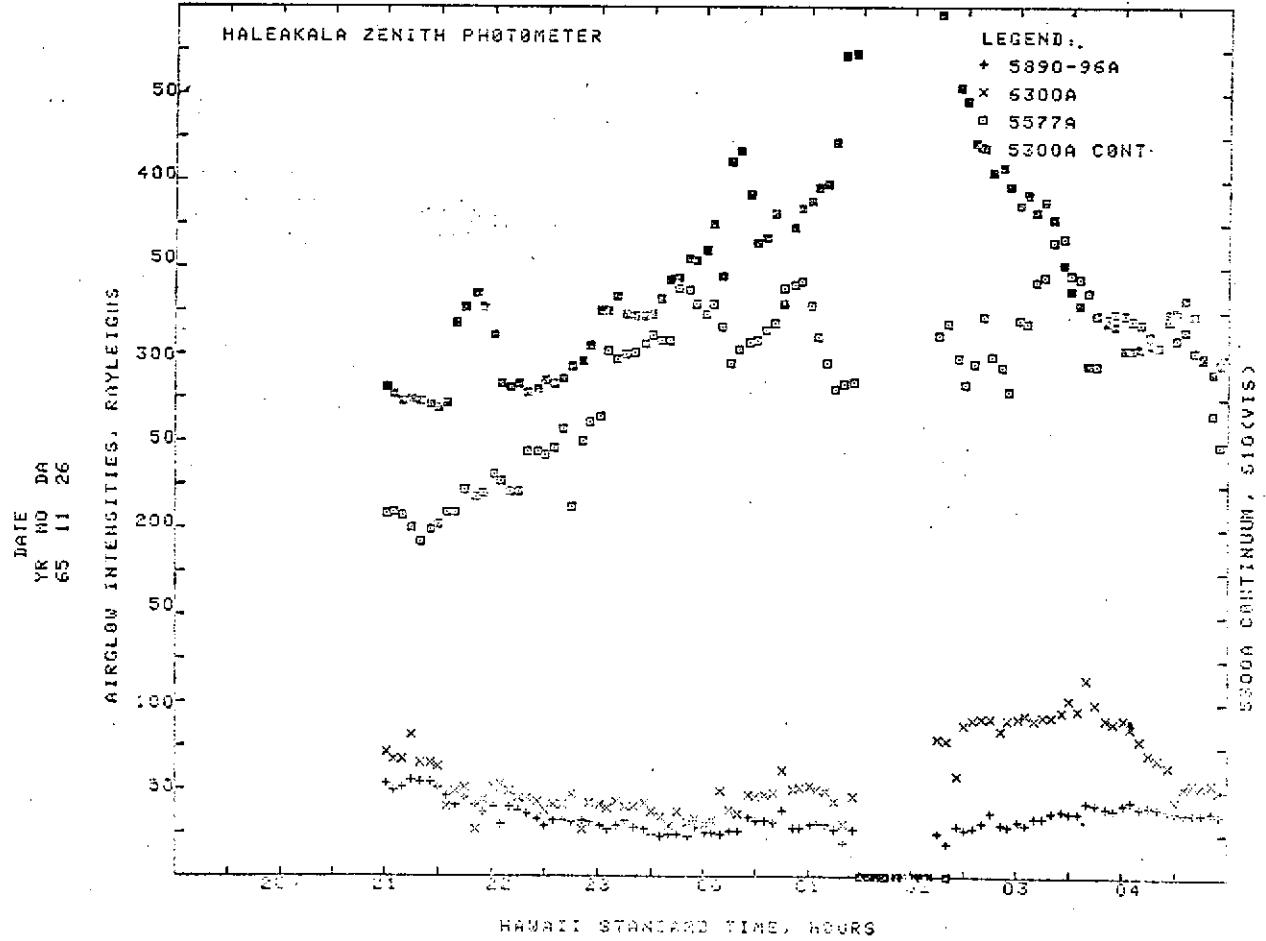
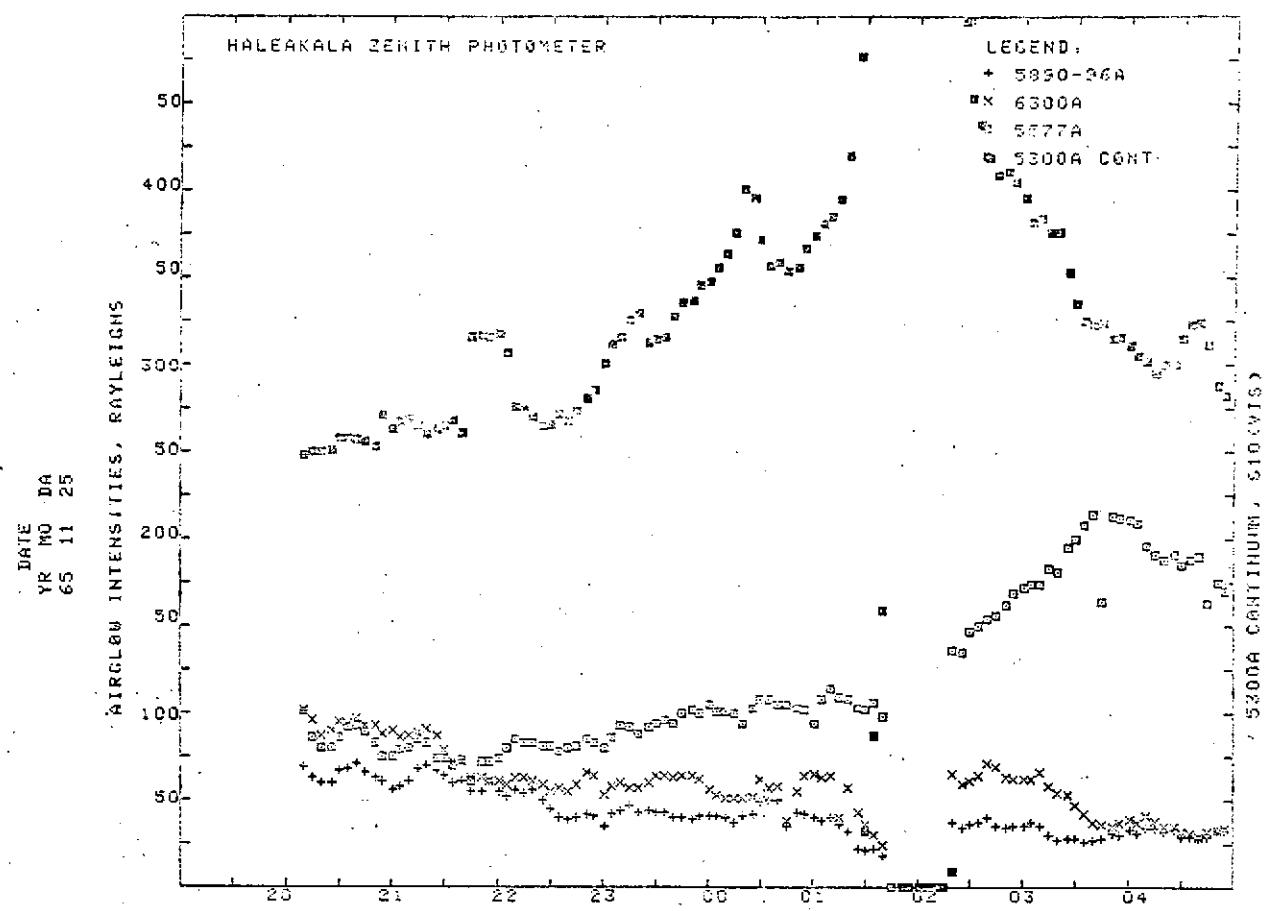


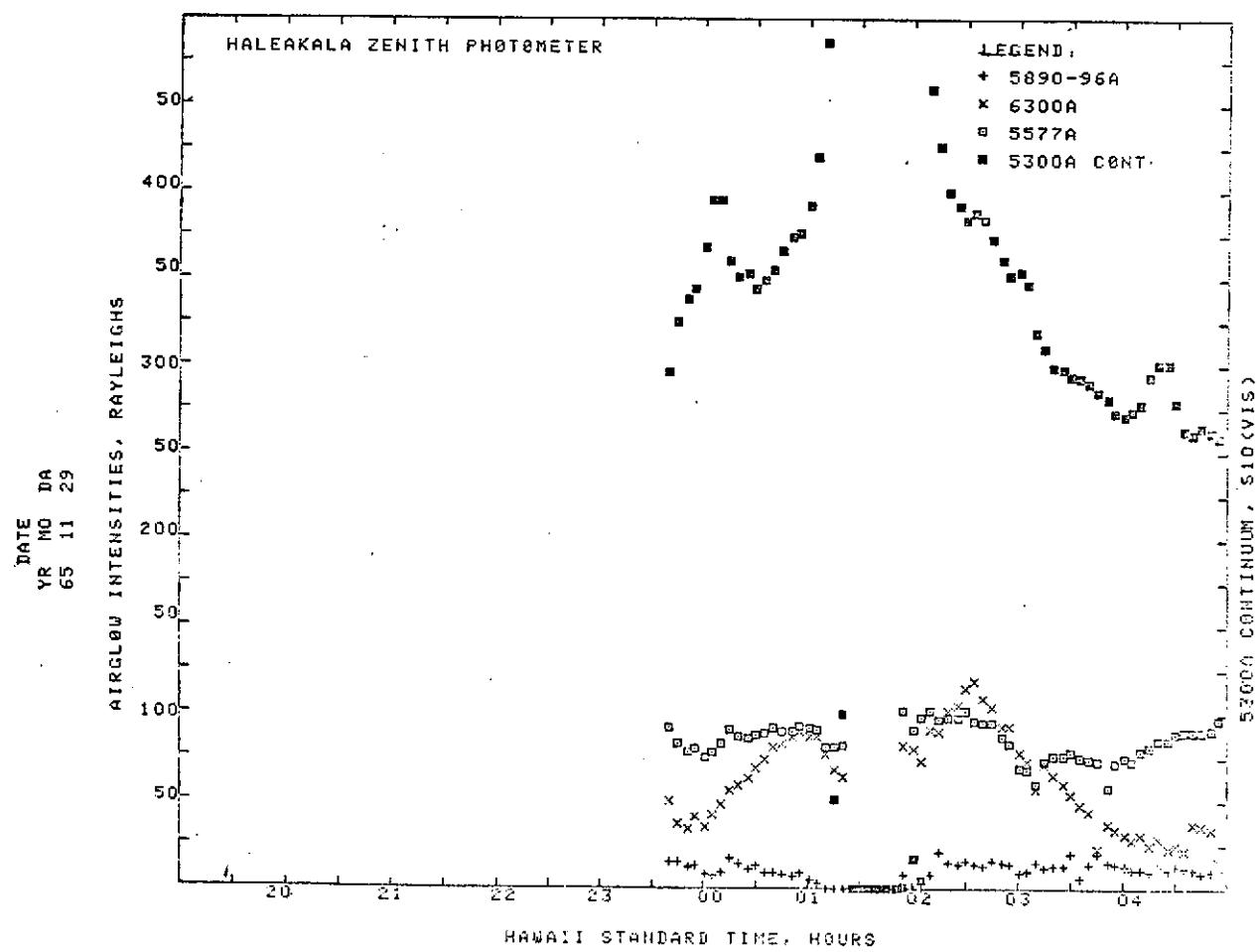
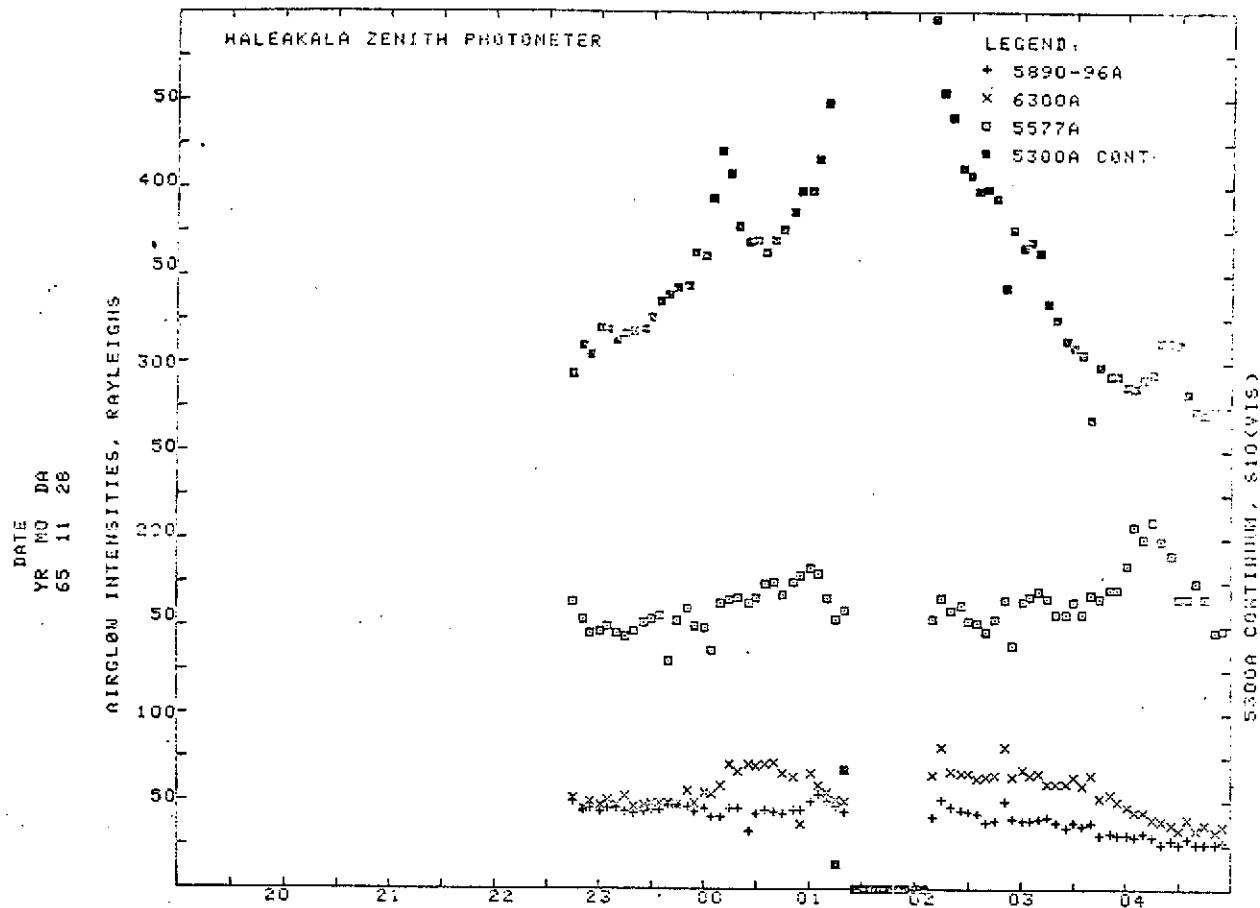


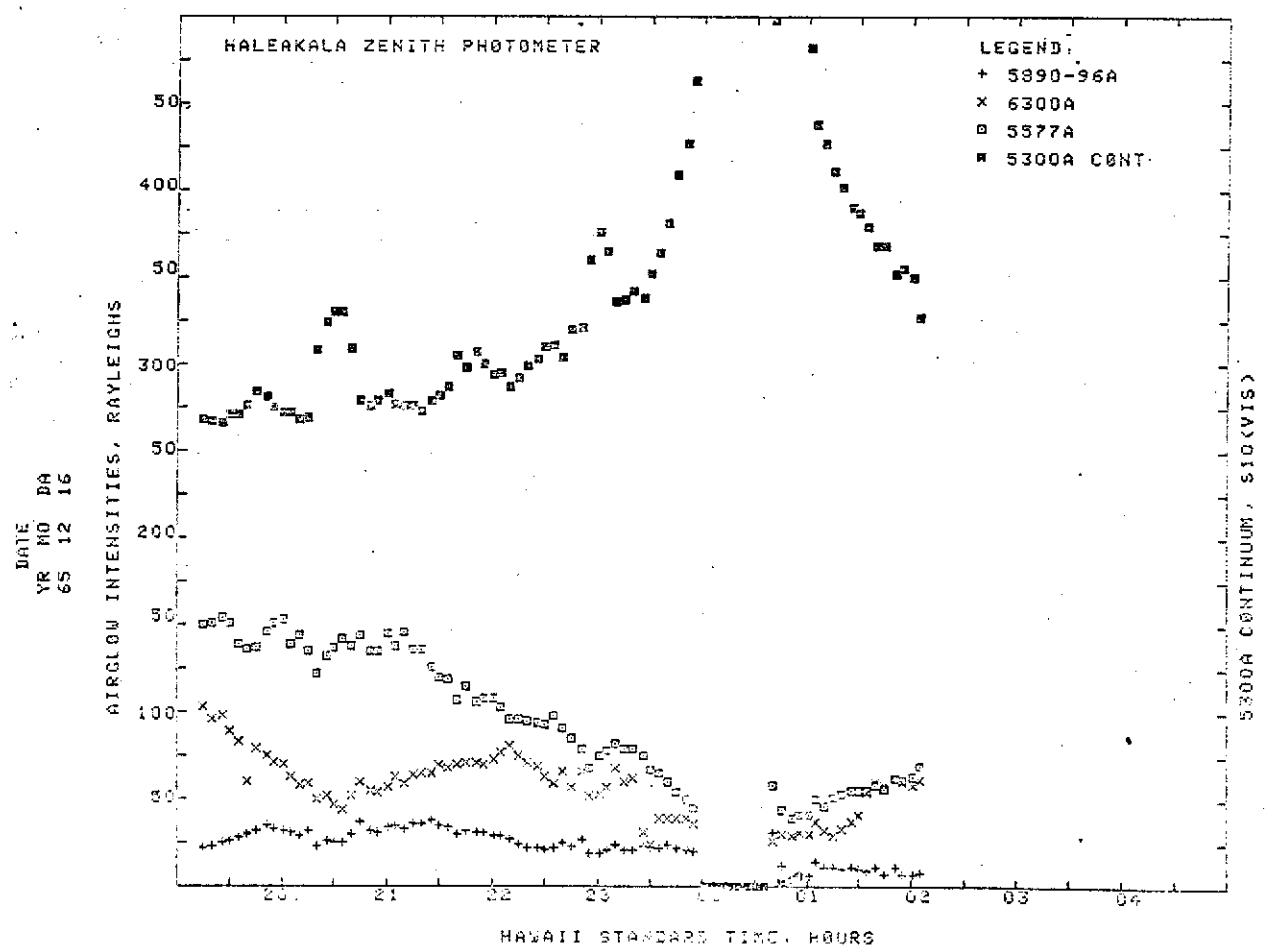
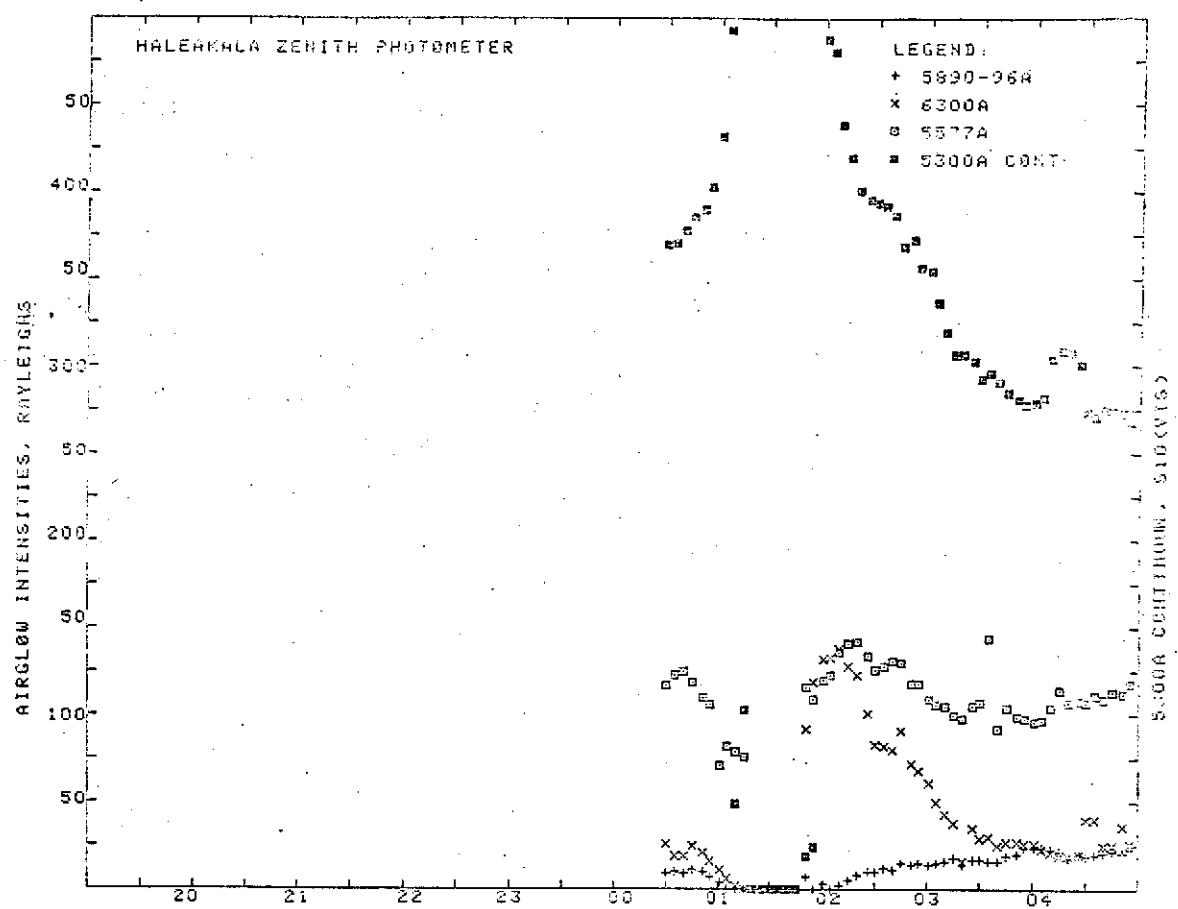


5300A CONTINUUM, SiO (VIS)



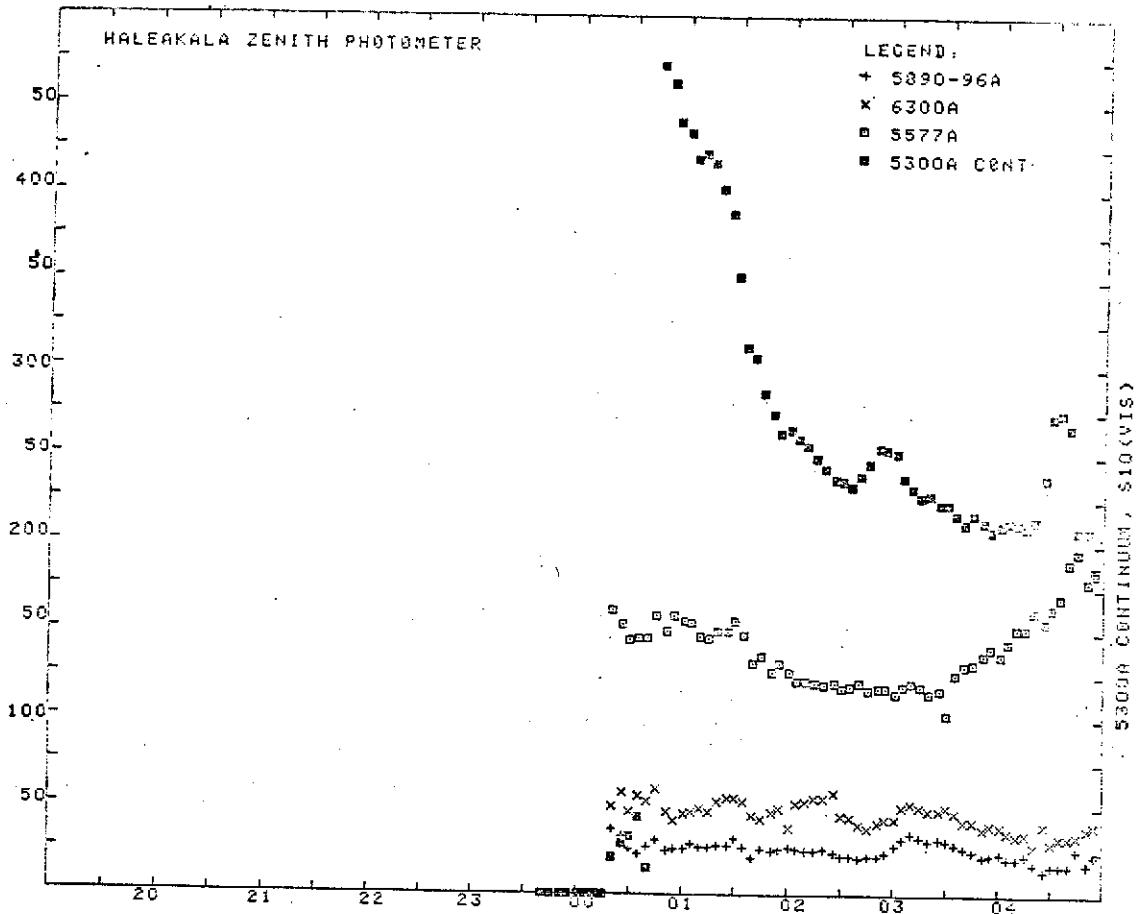






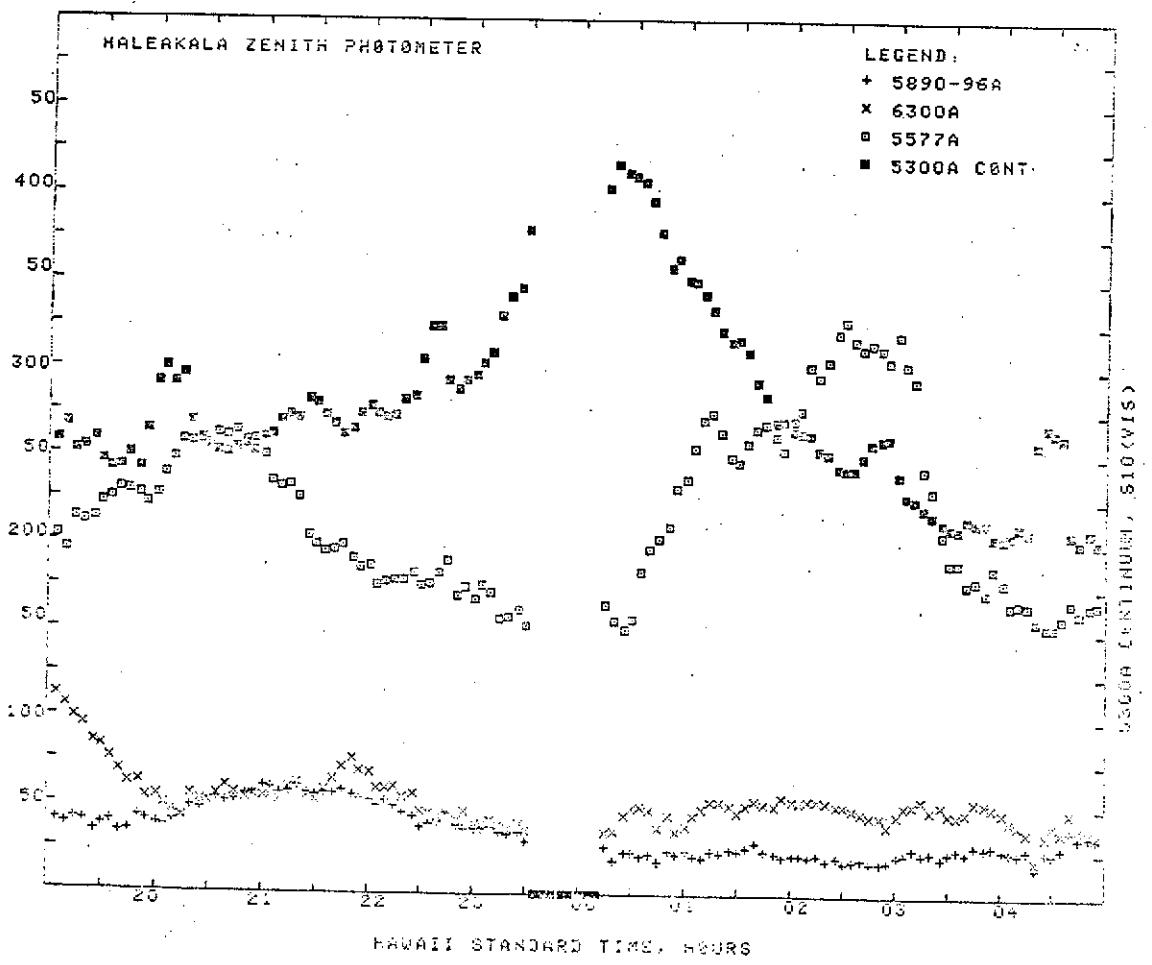
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AIRGLOW INTENSITIES, RAYLEIGHS

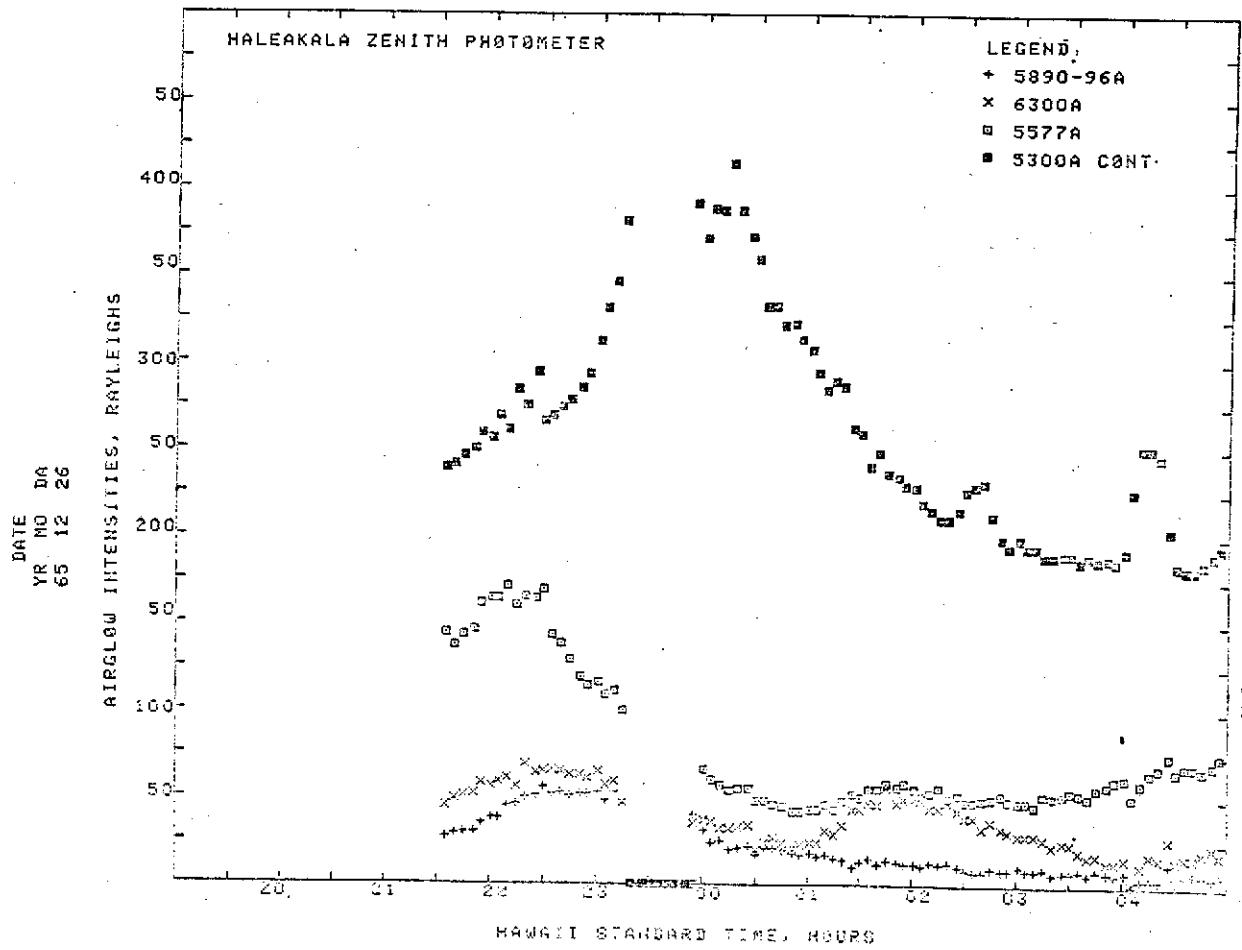
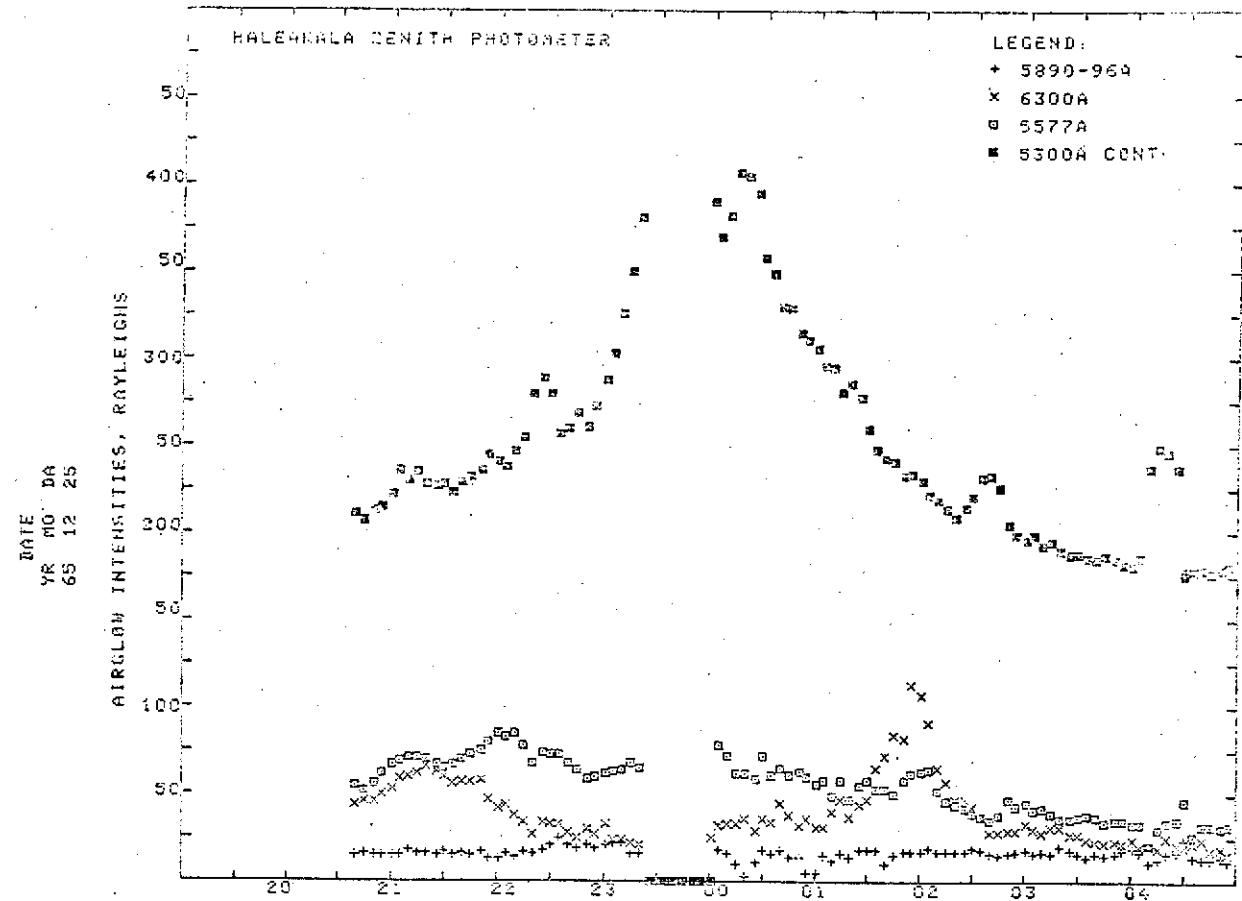


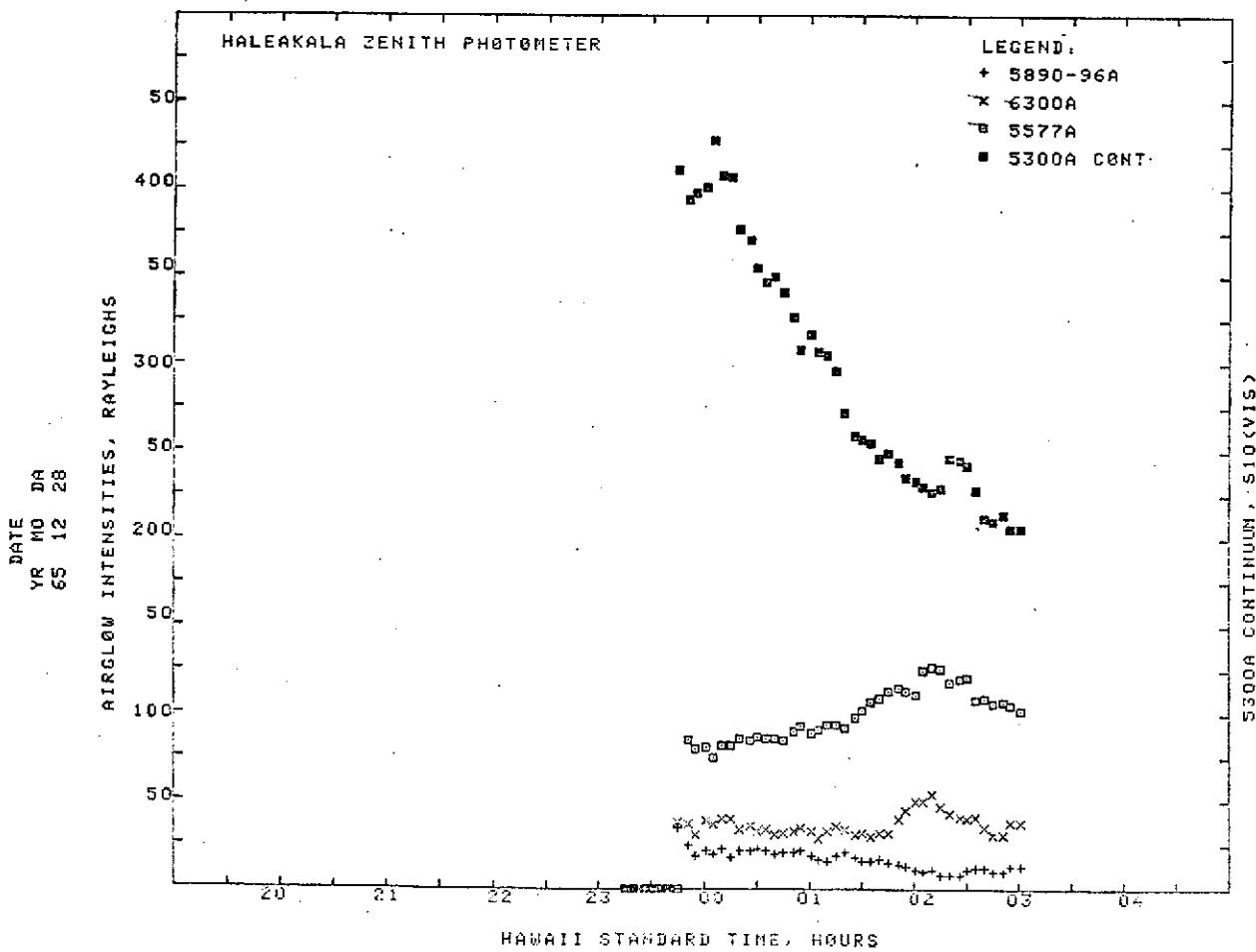
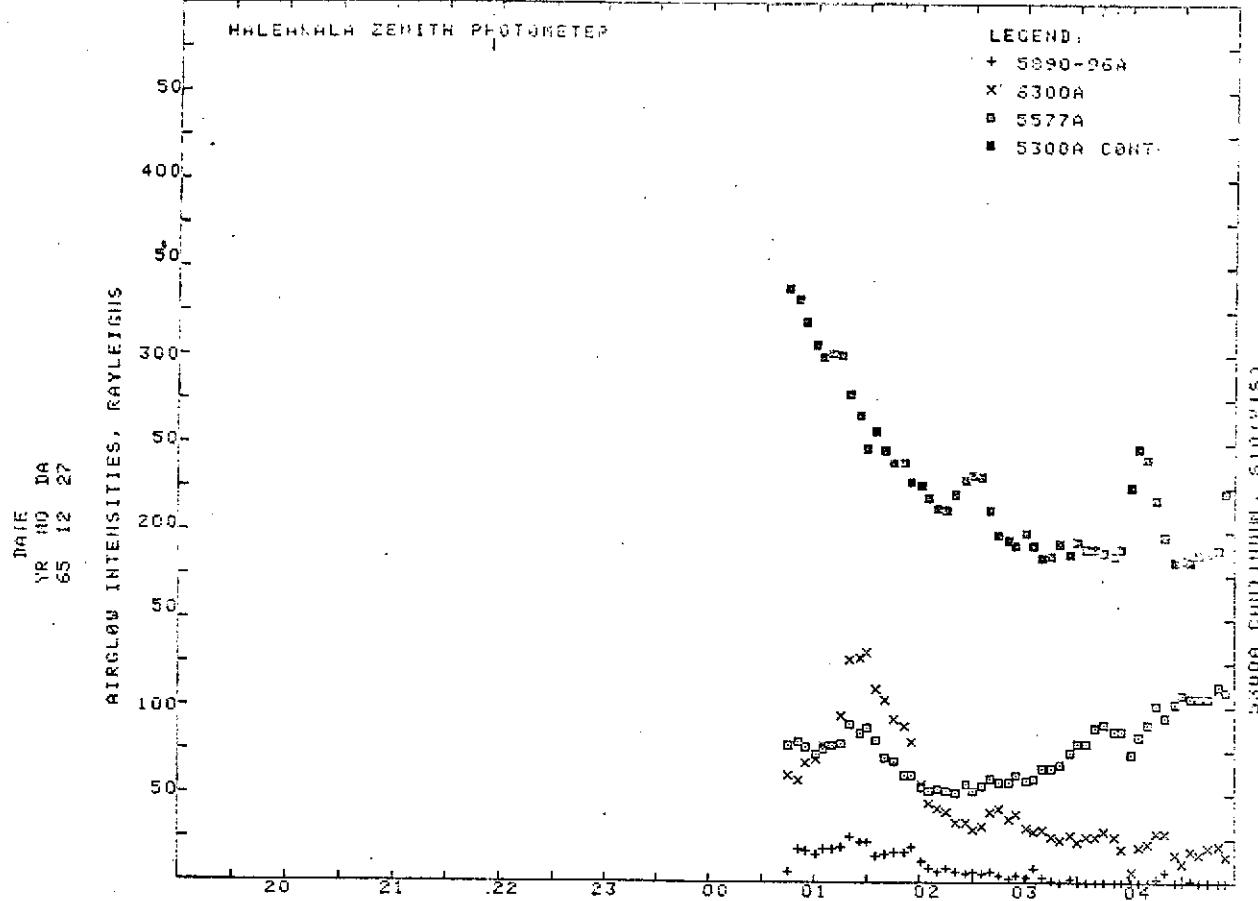
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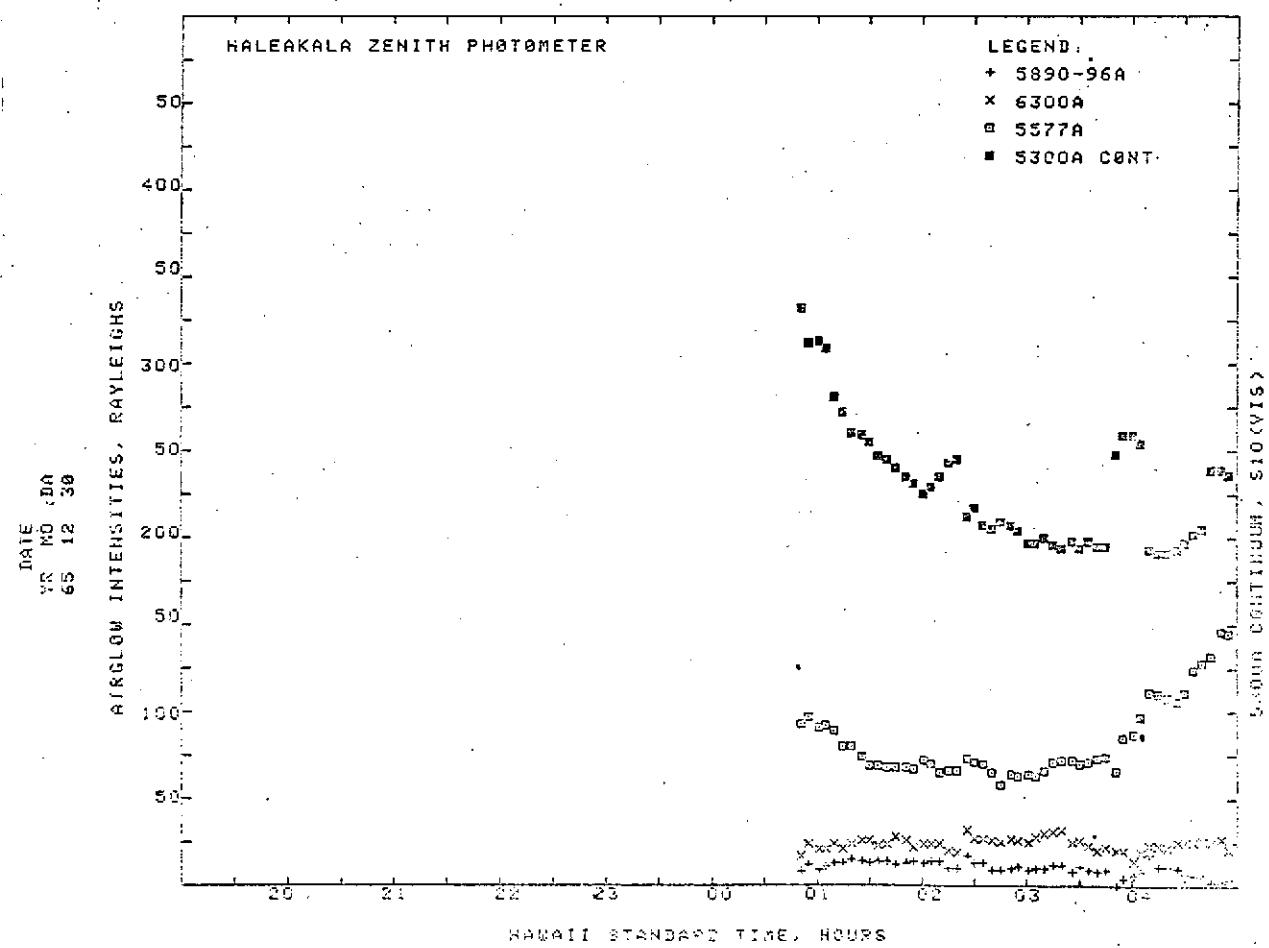
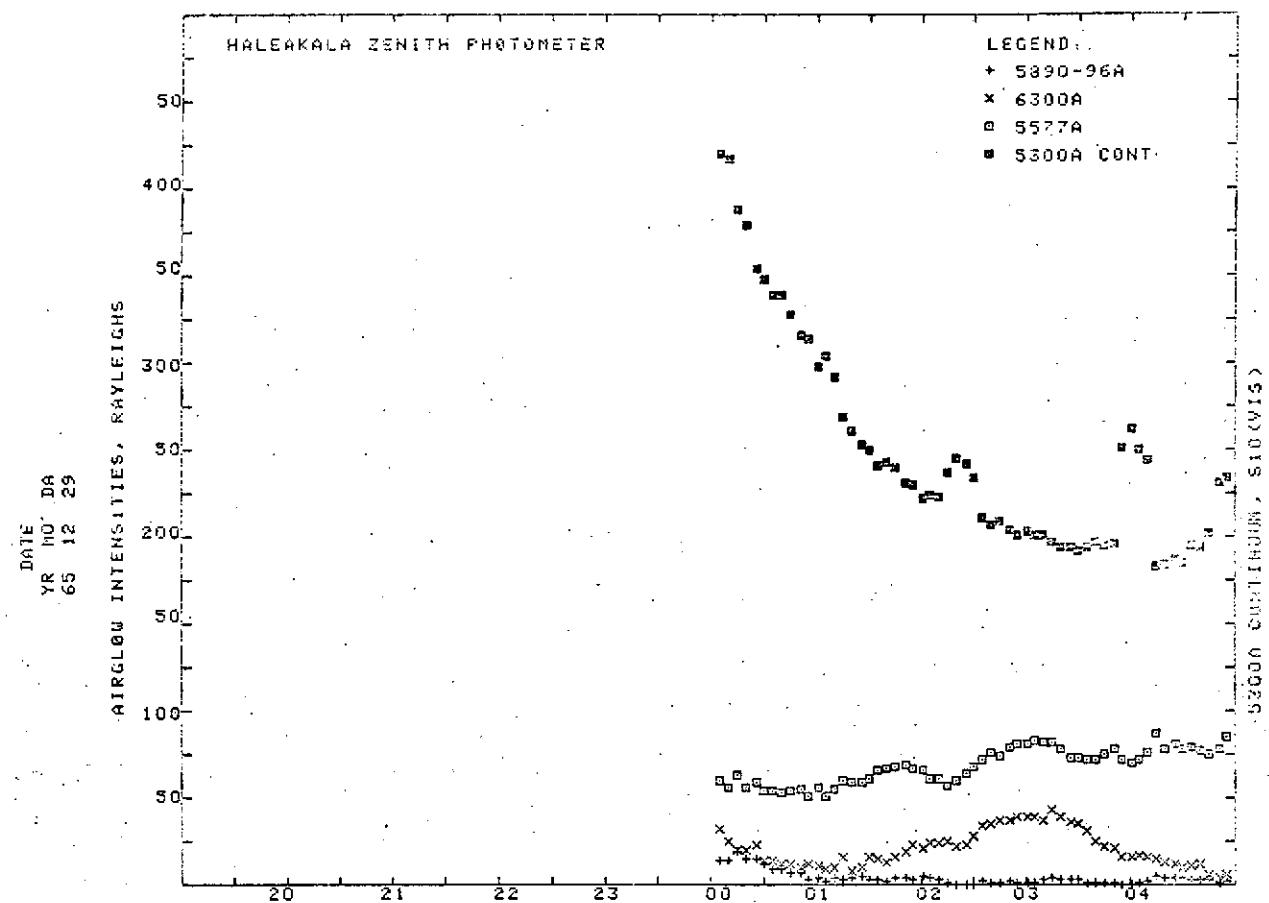
AIRGLOW INTENSITIES, RAYLEIGHS

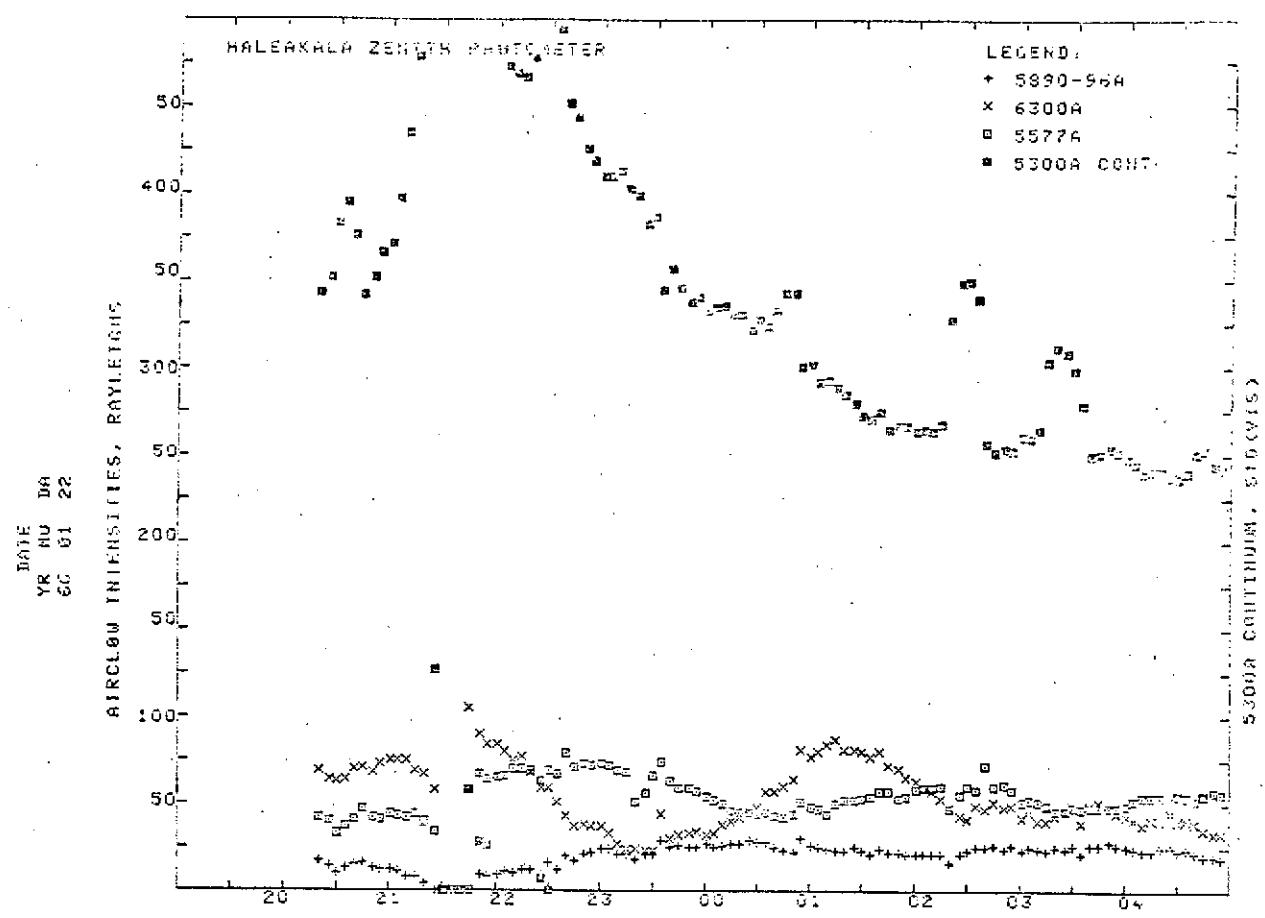
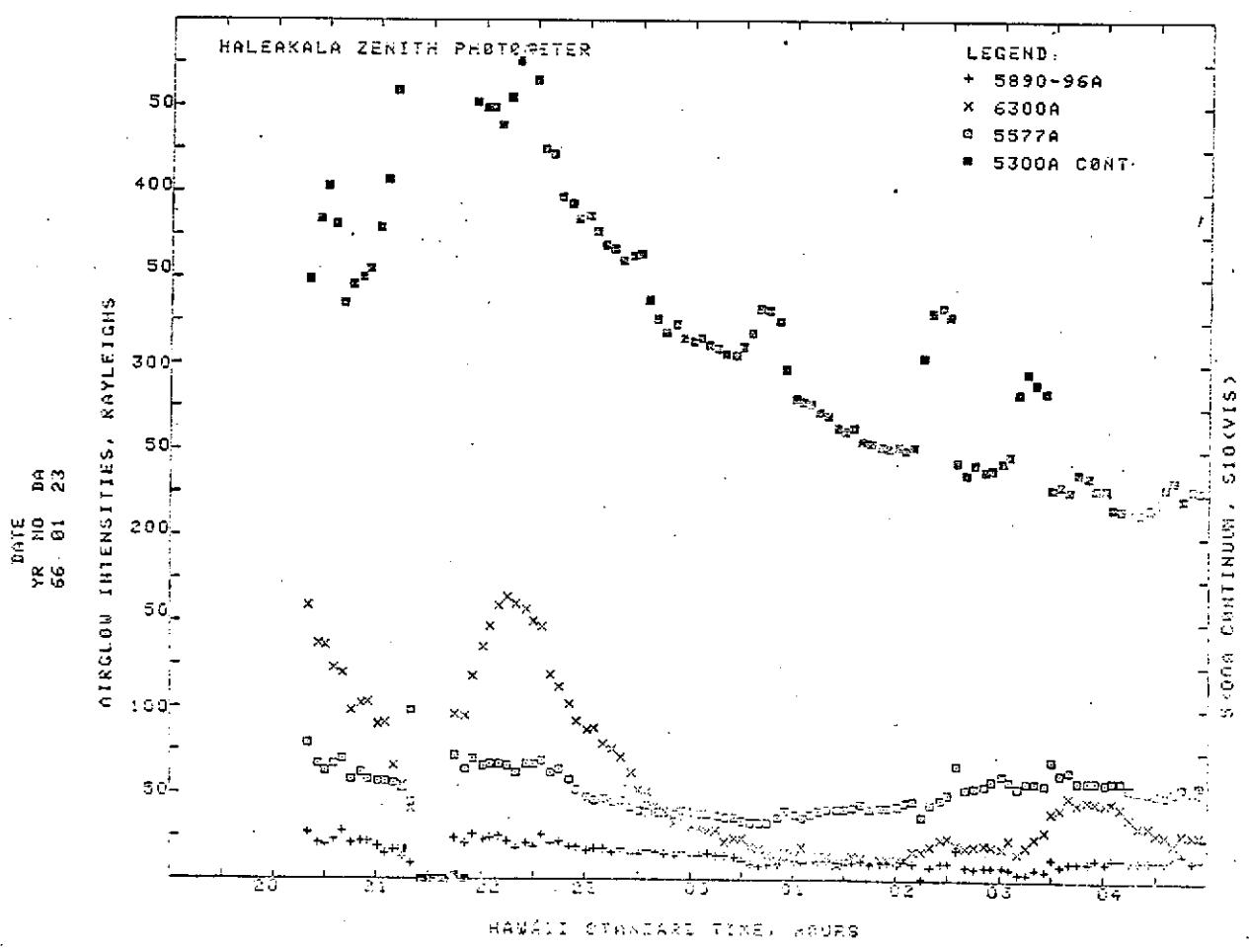


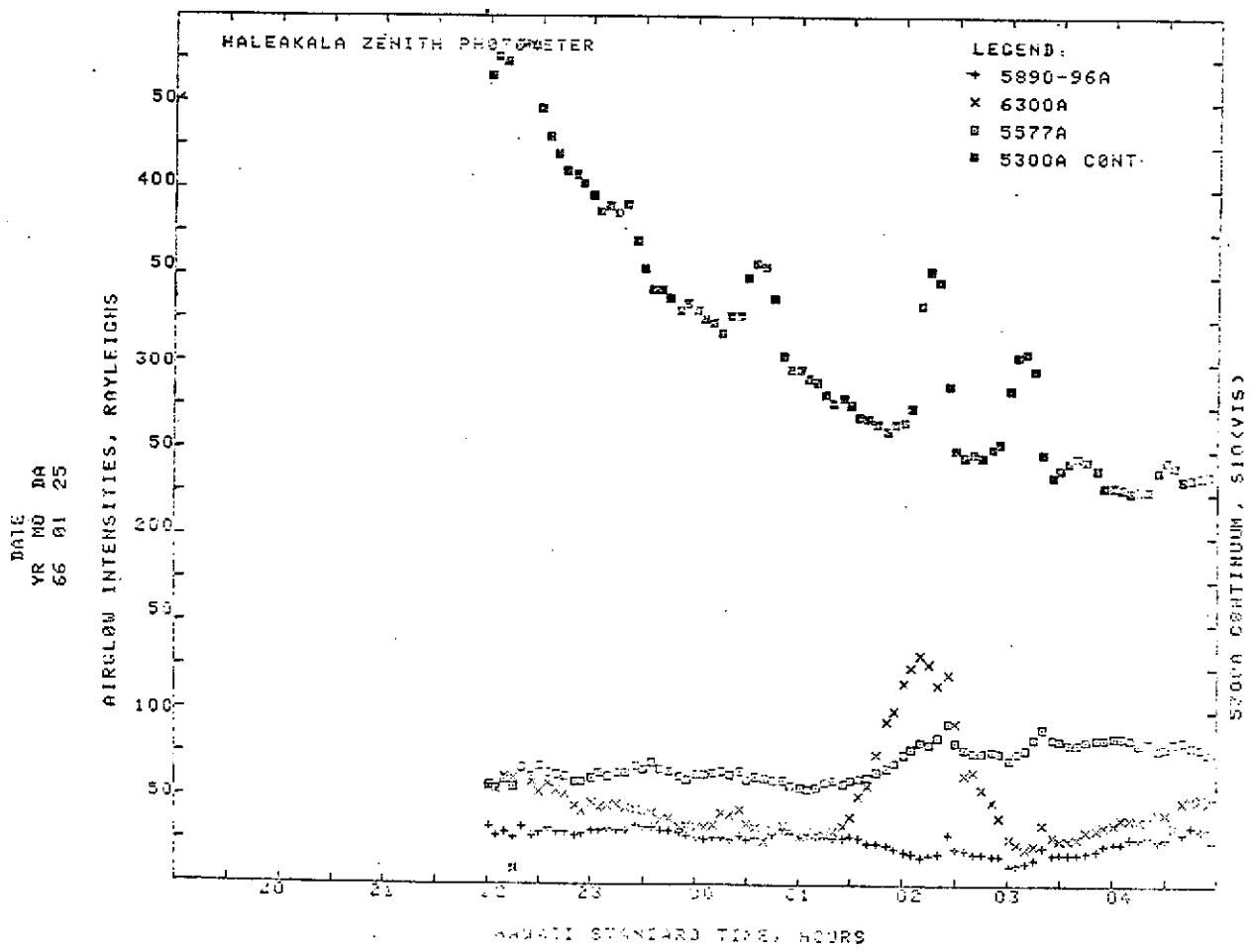
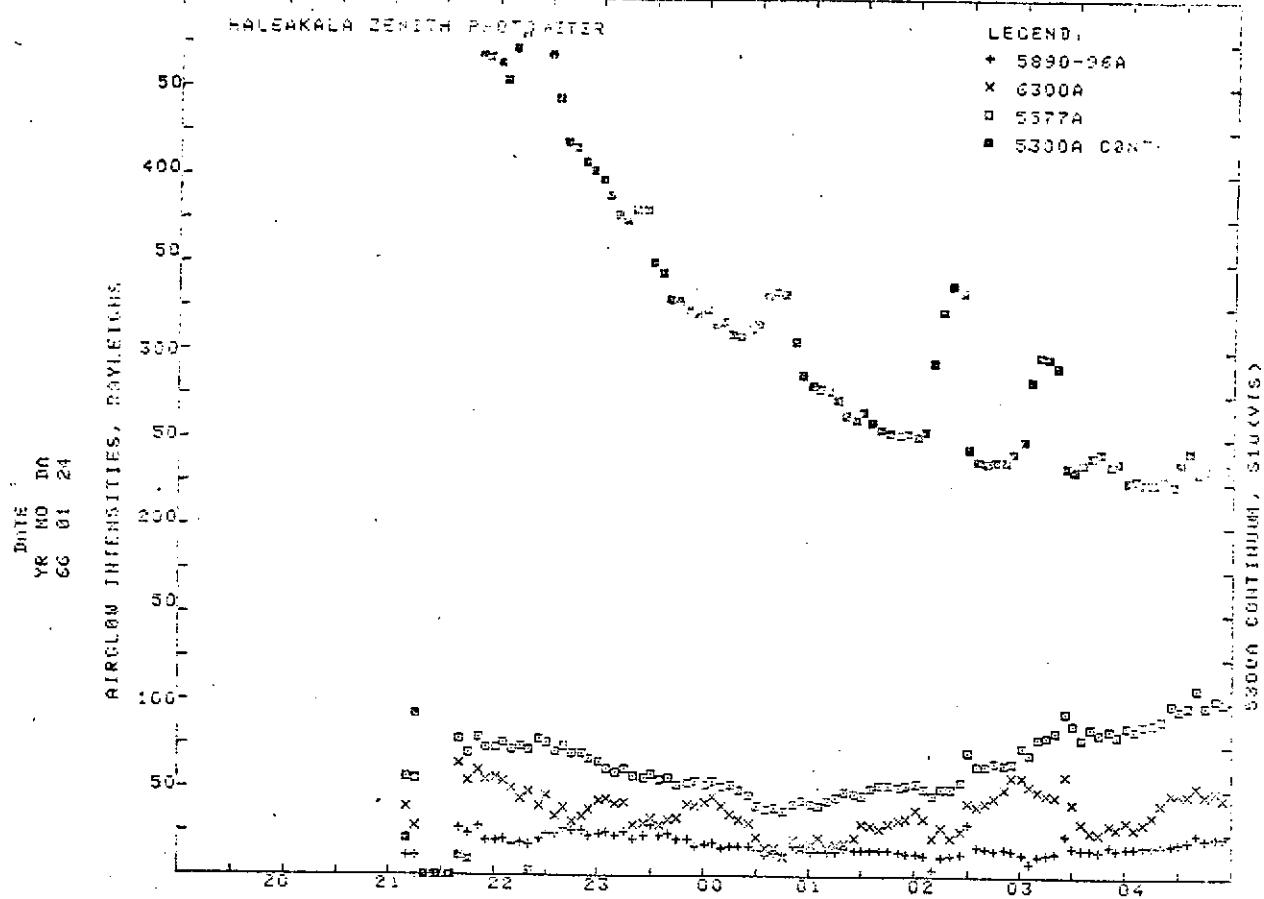
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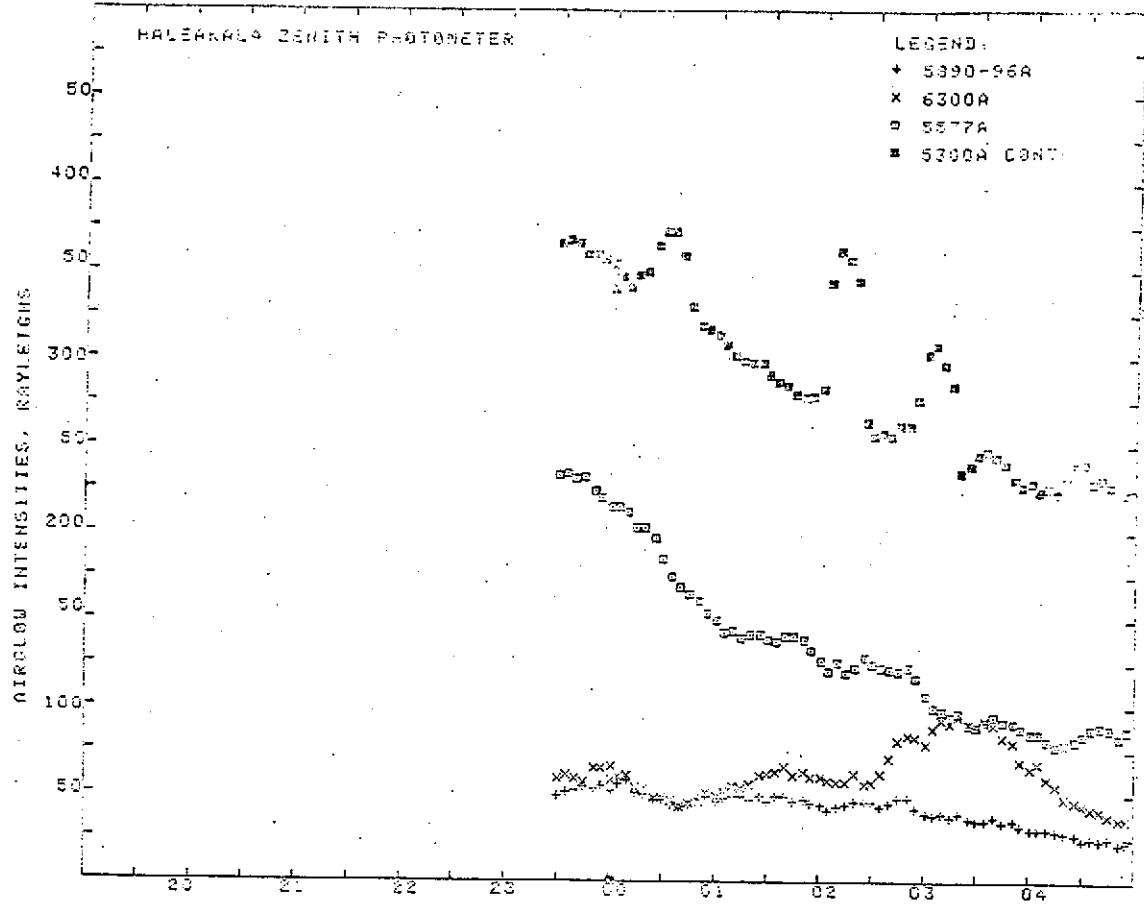






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AIRGLOW INTENSITIES, RAYLEIGH'S

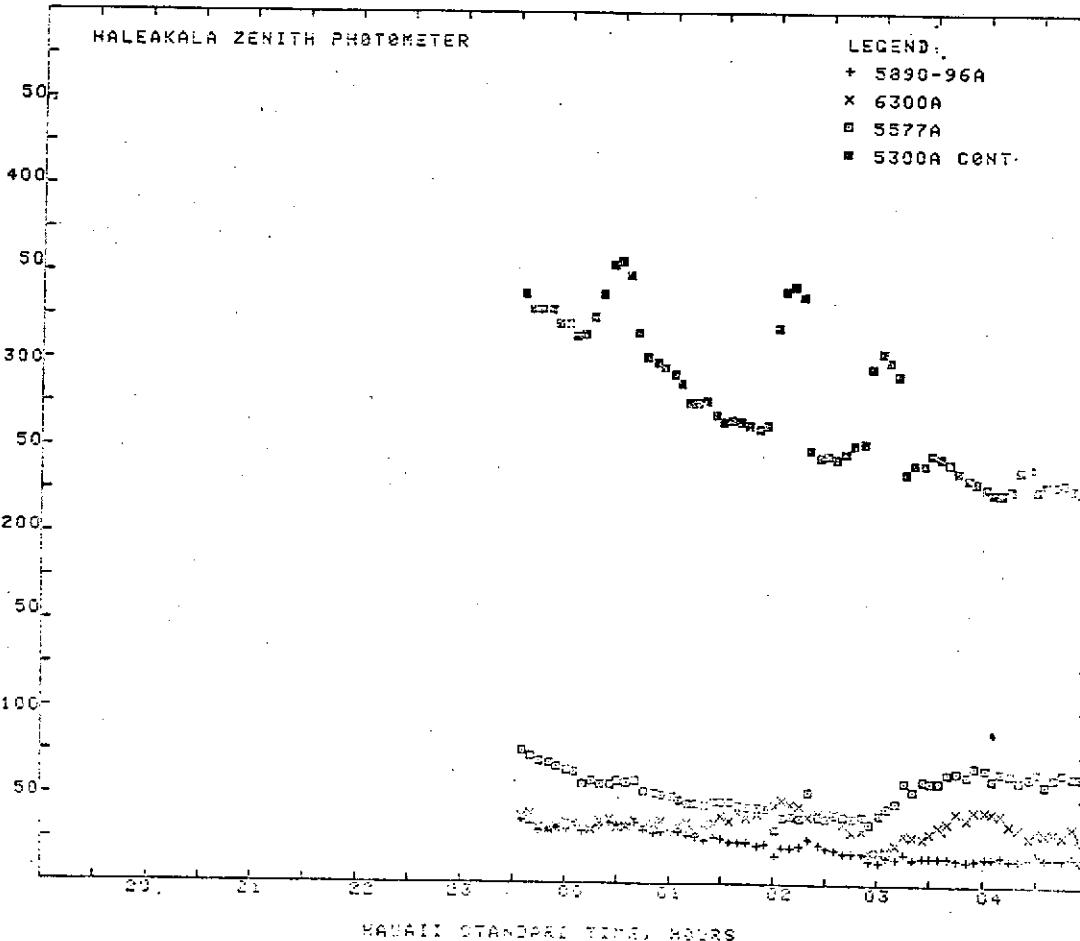


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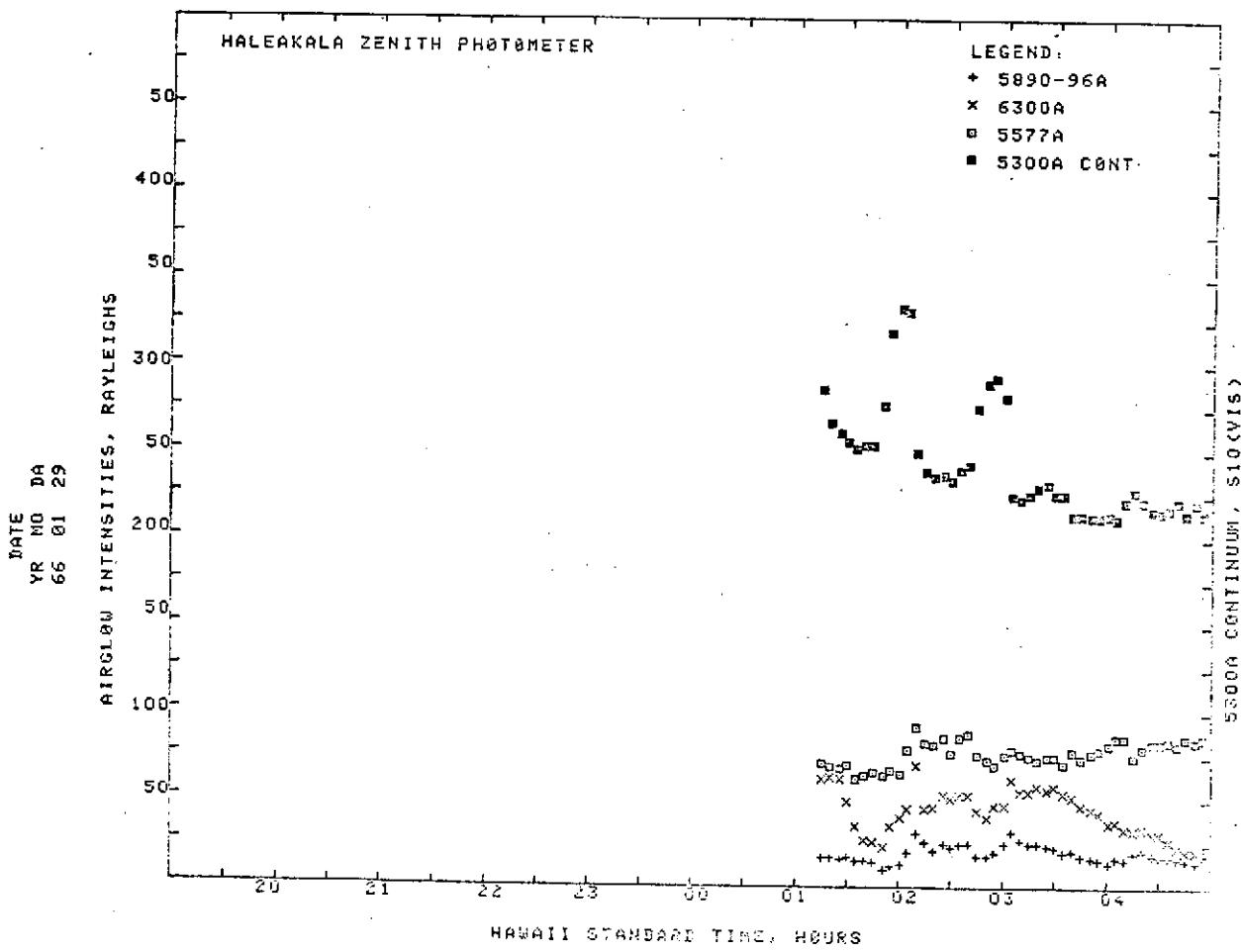
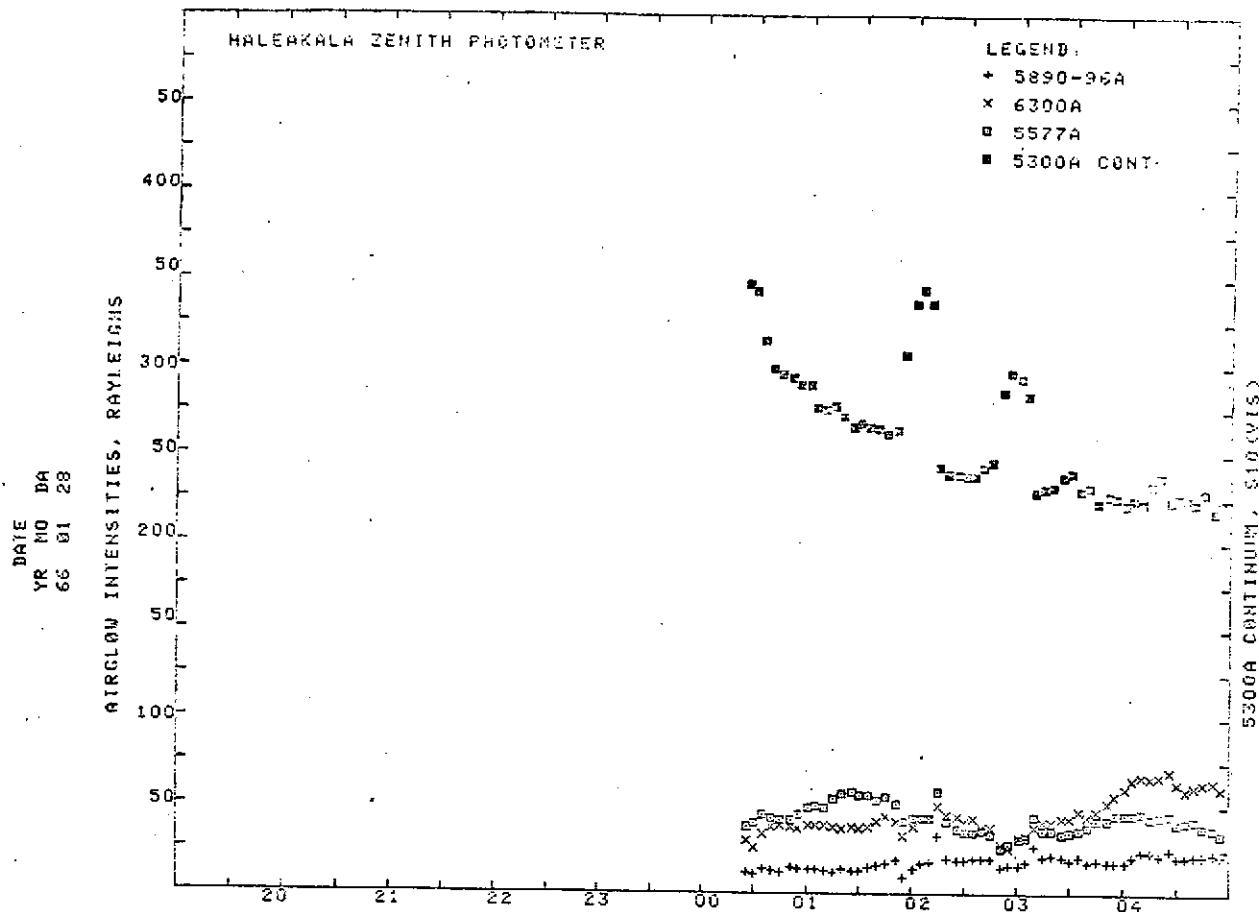
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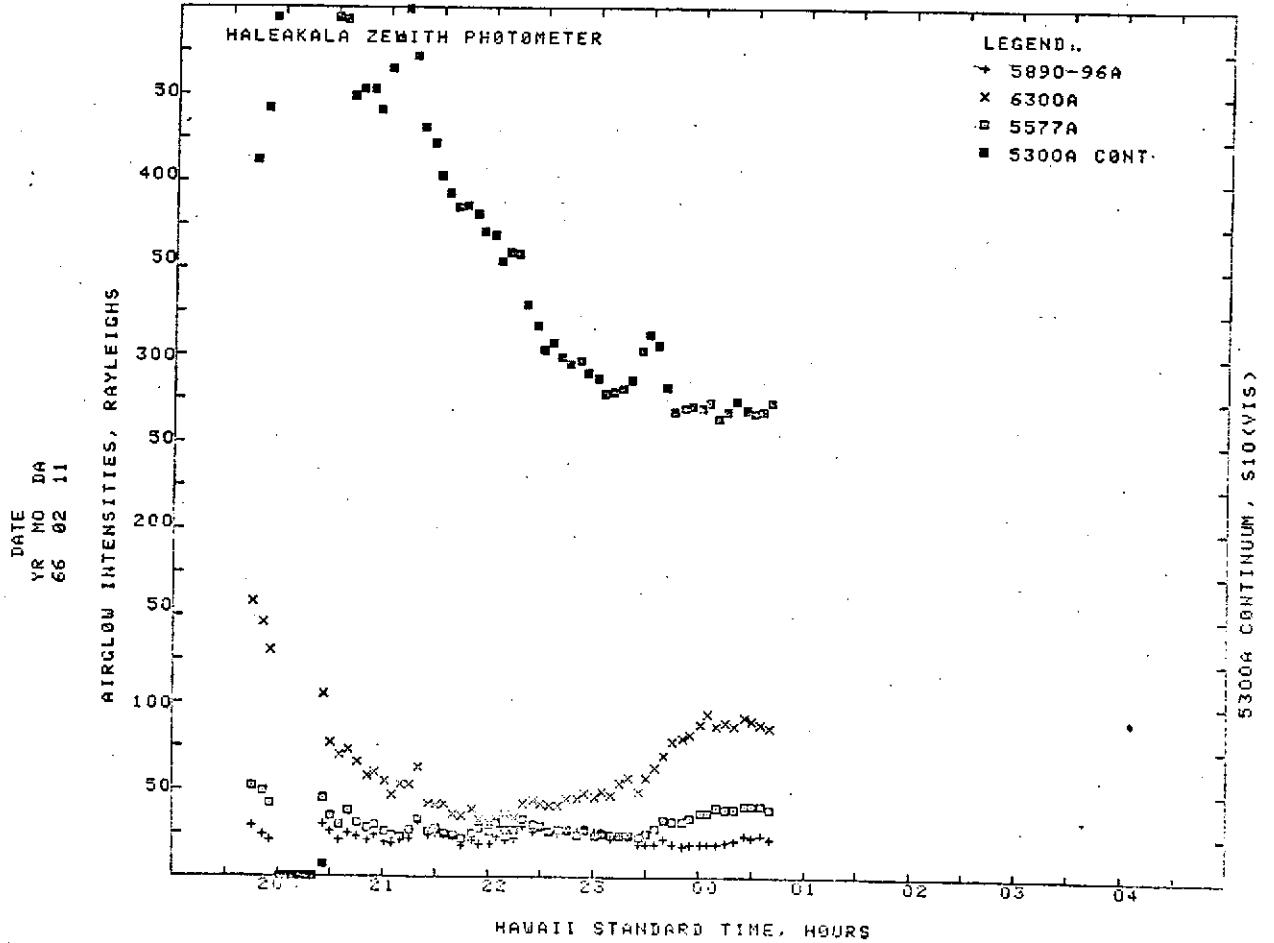
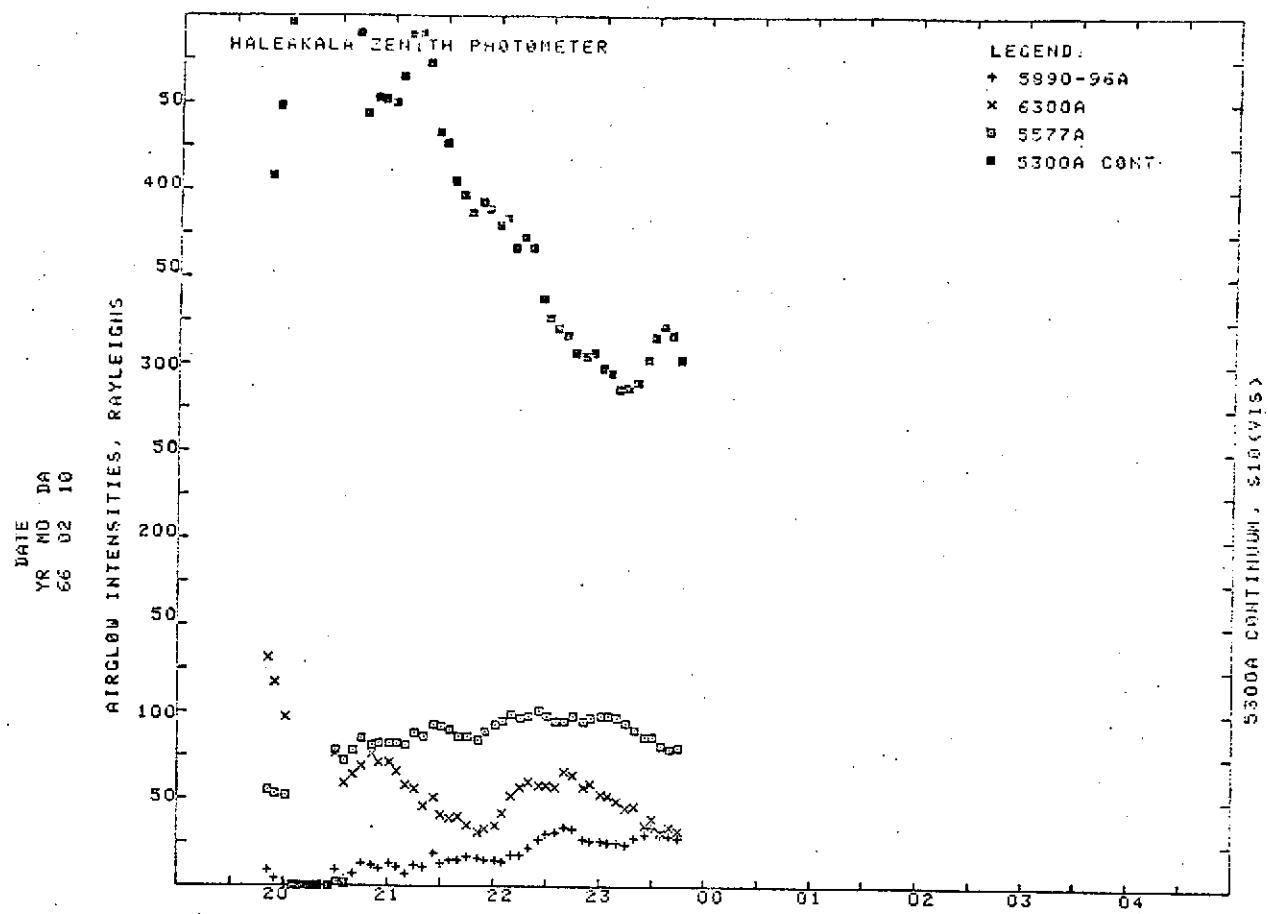
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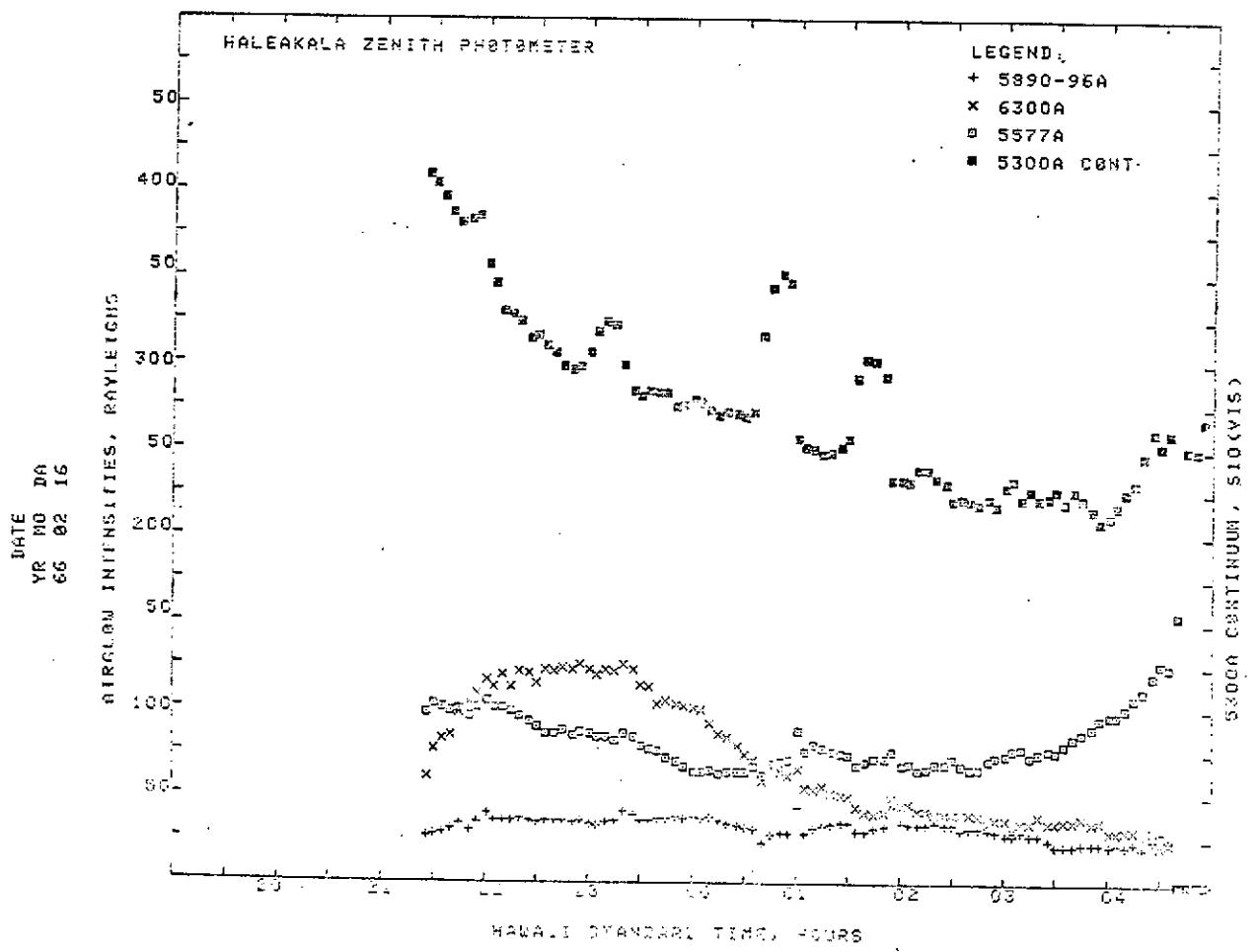
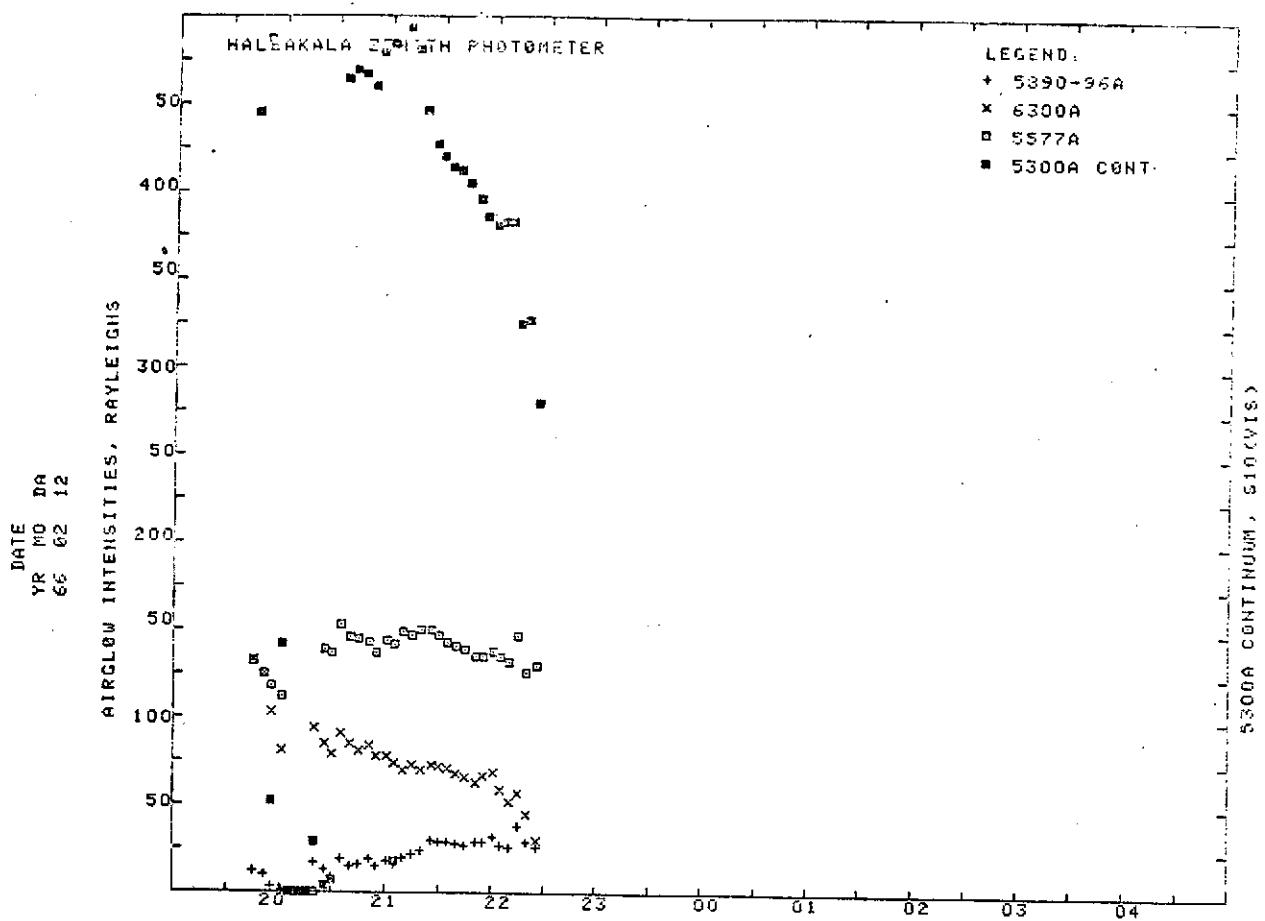
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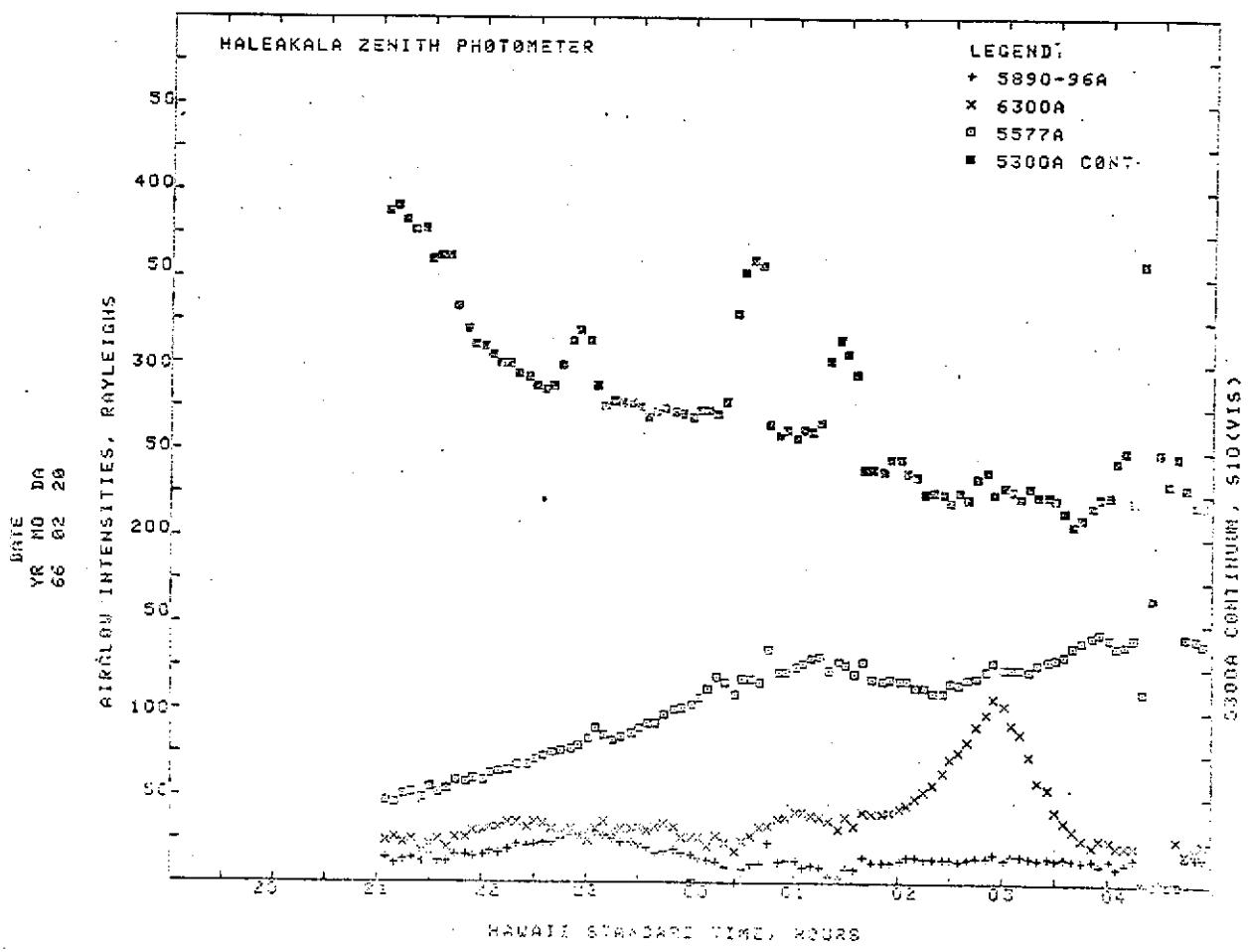
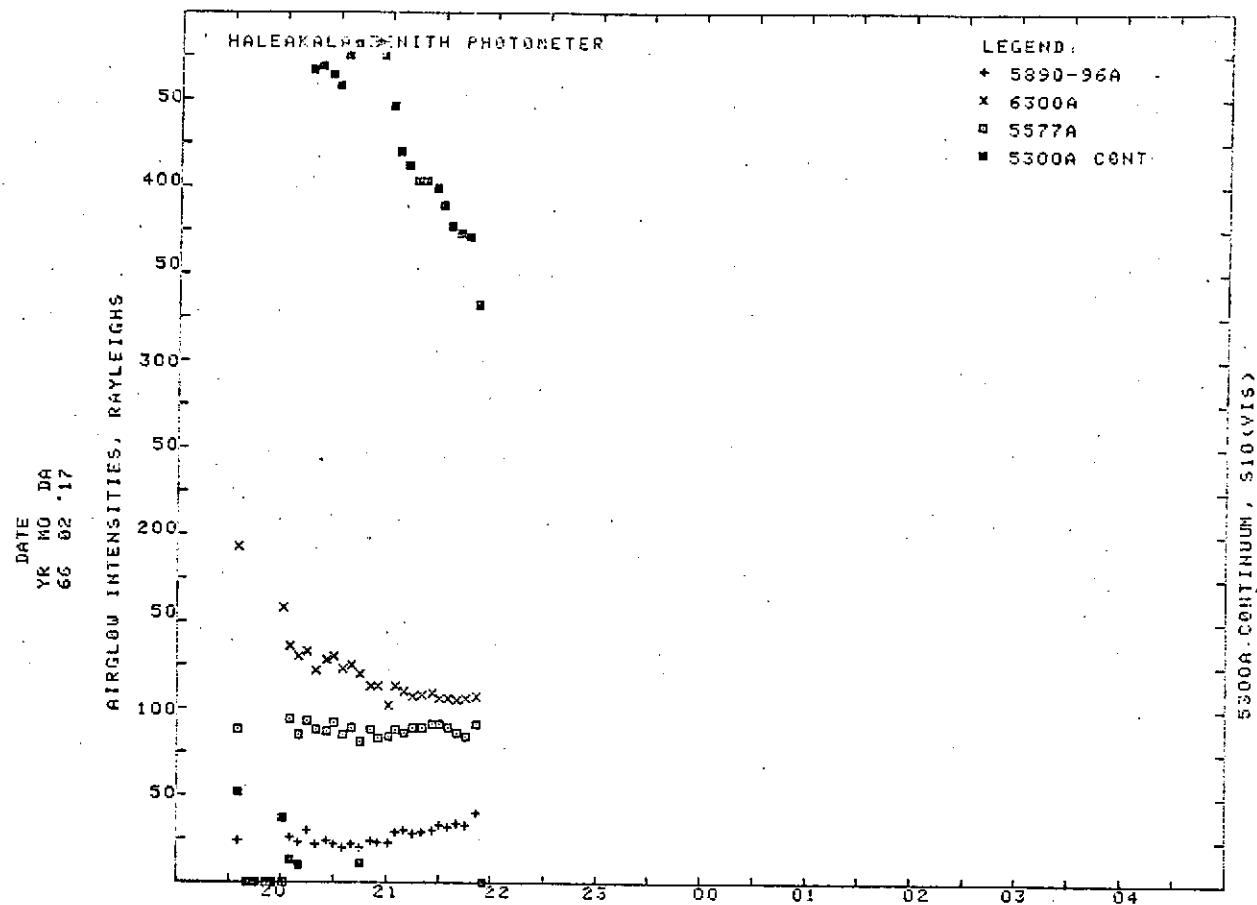


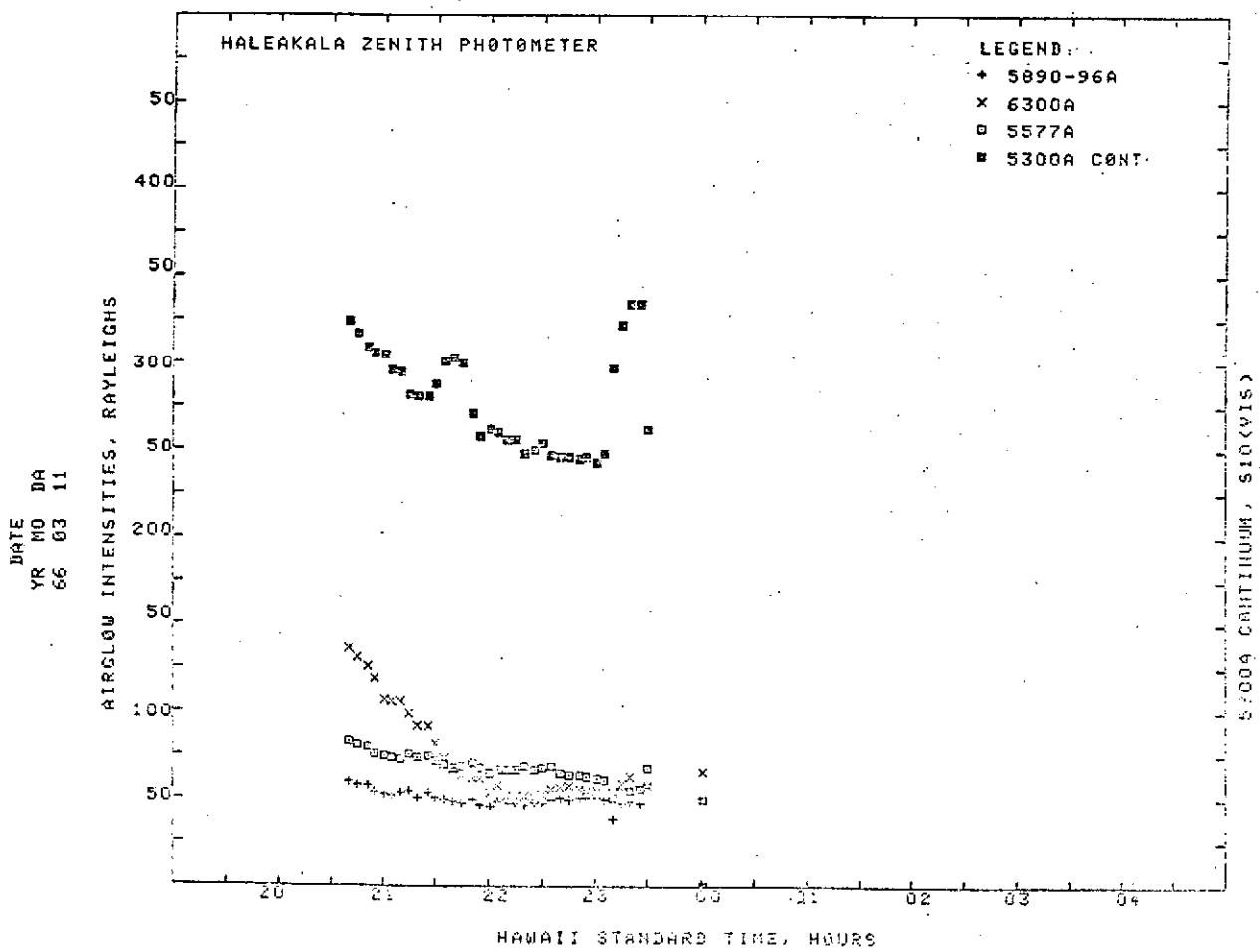
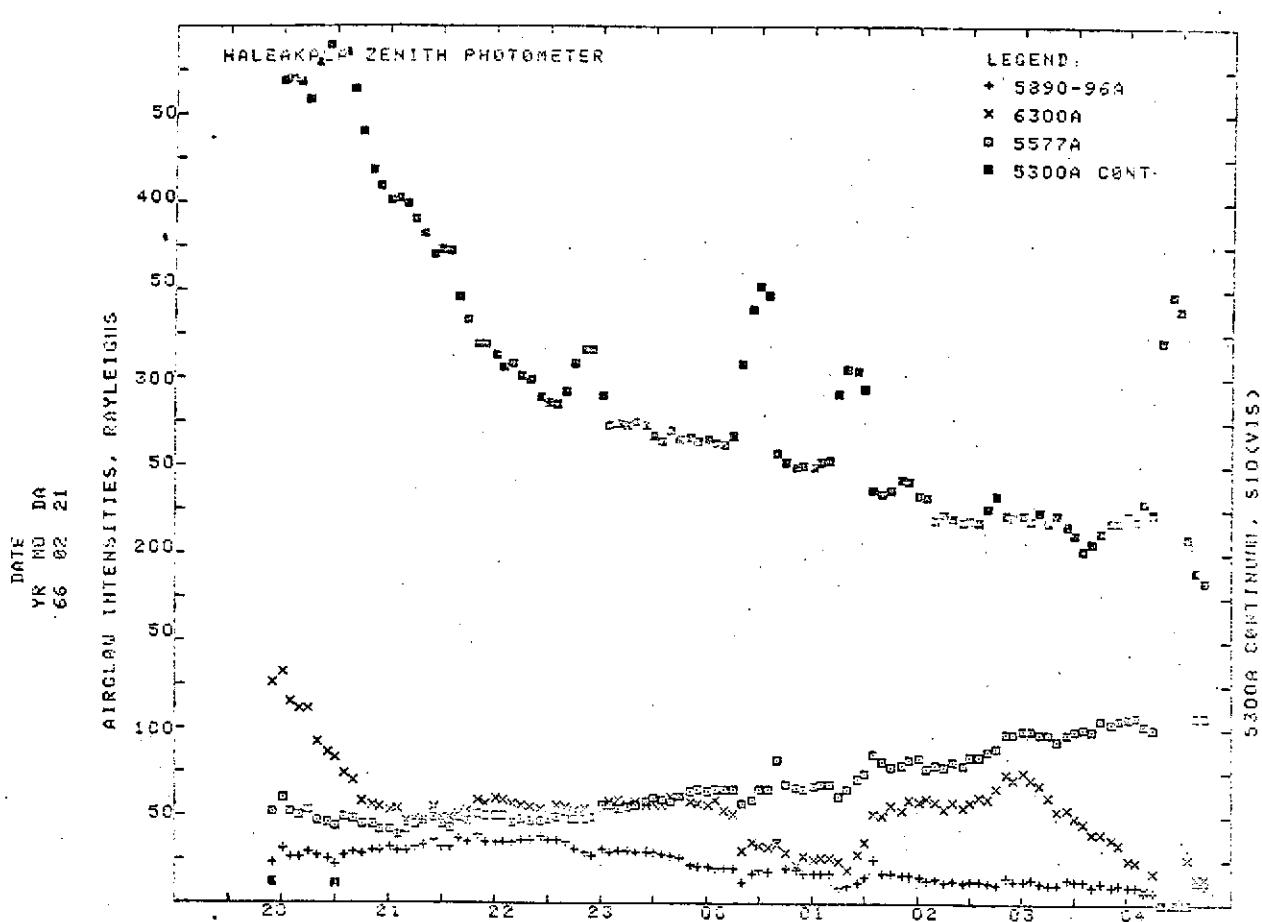
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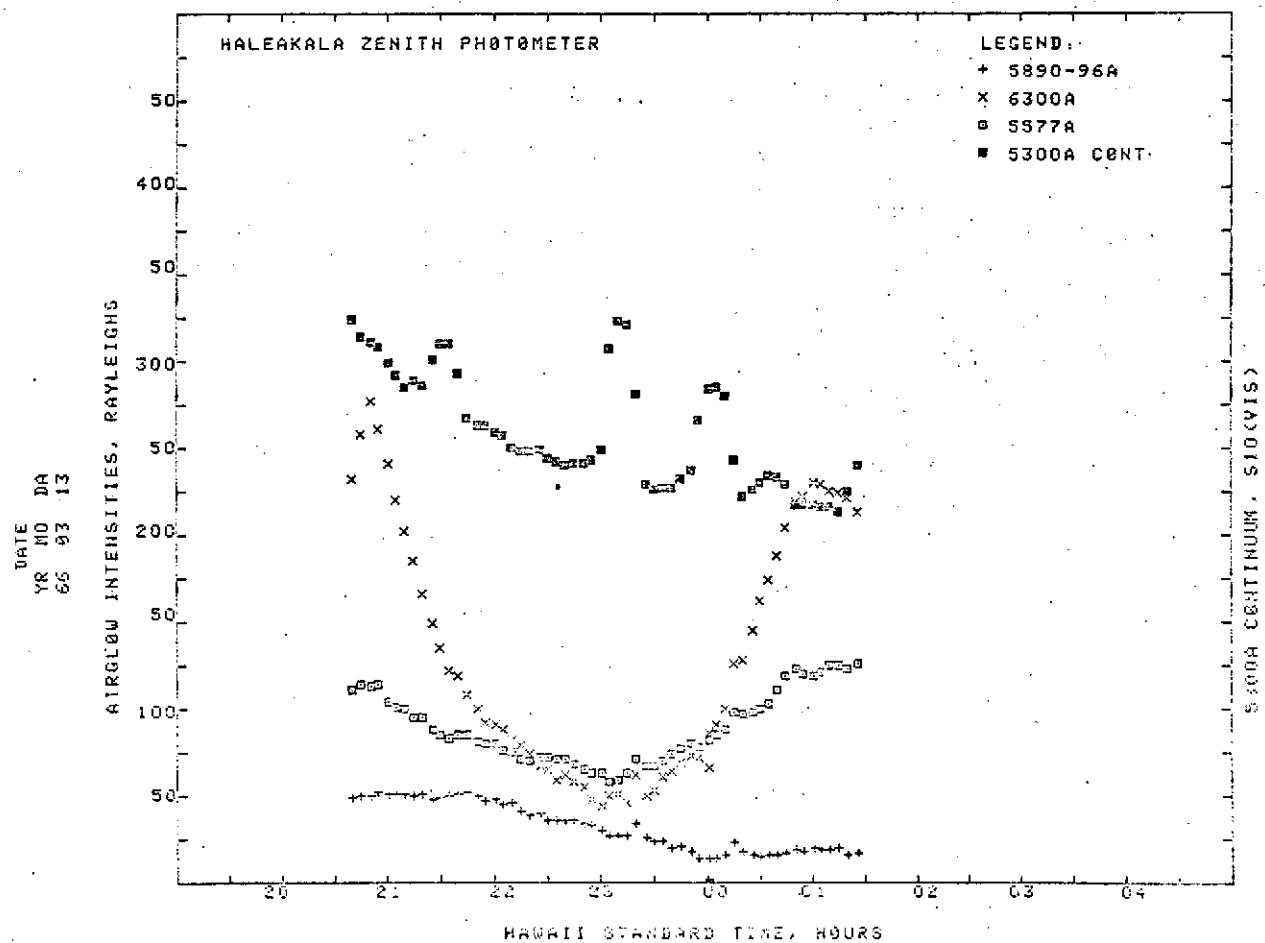
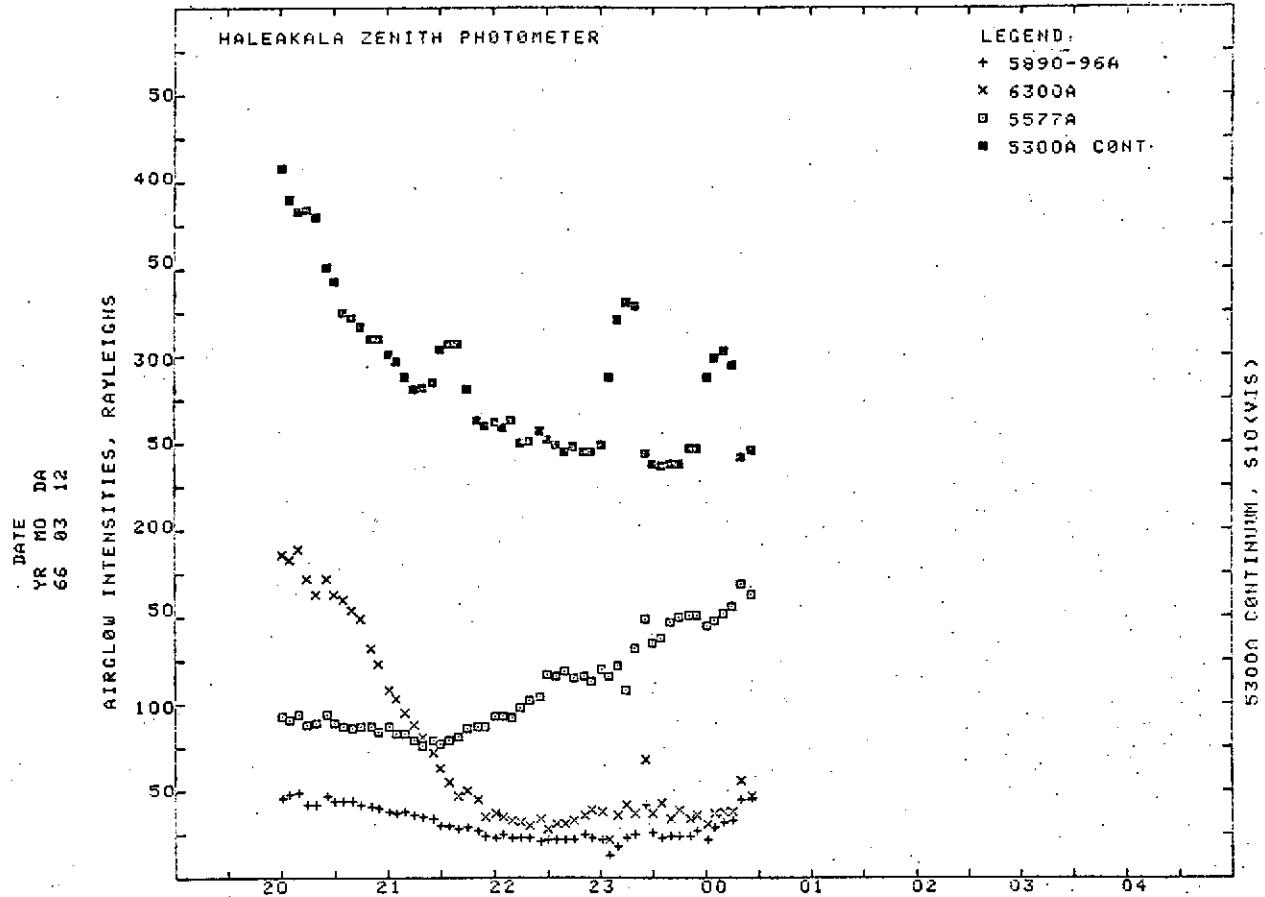


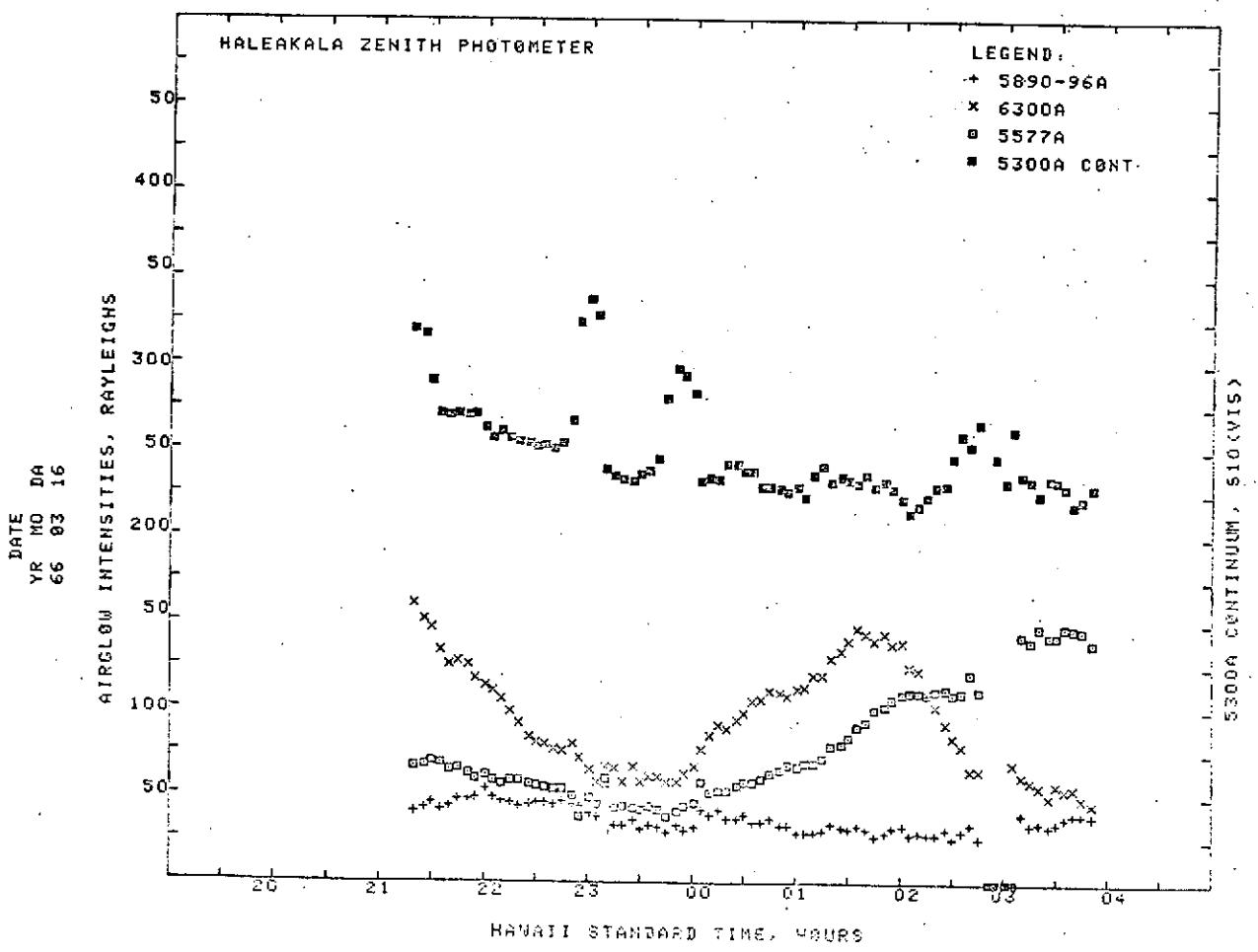
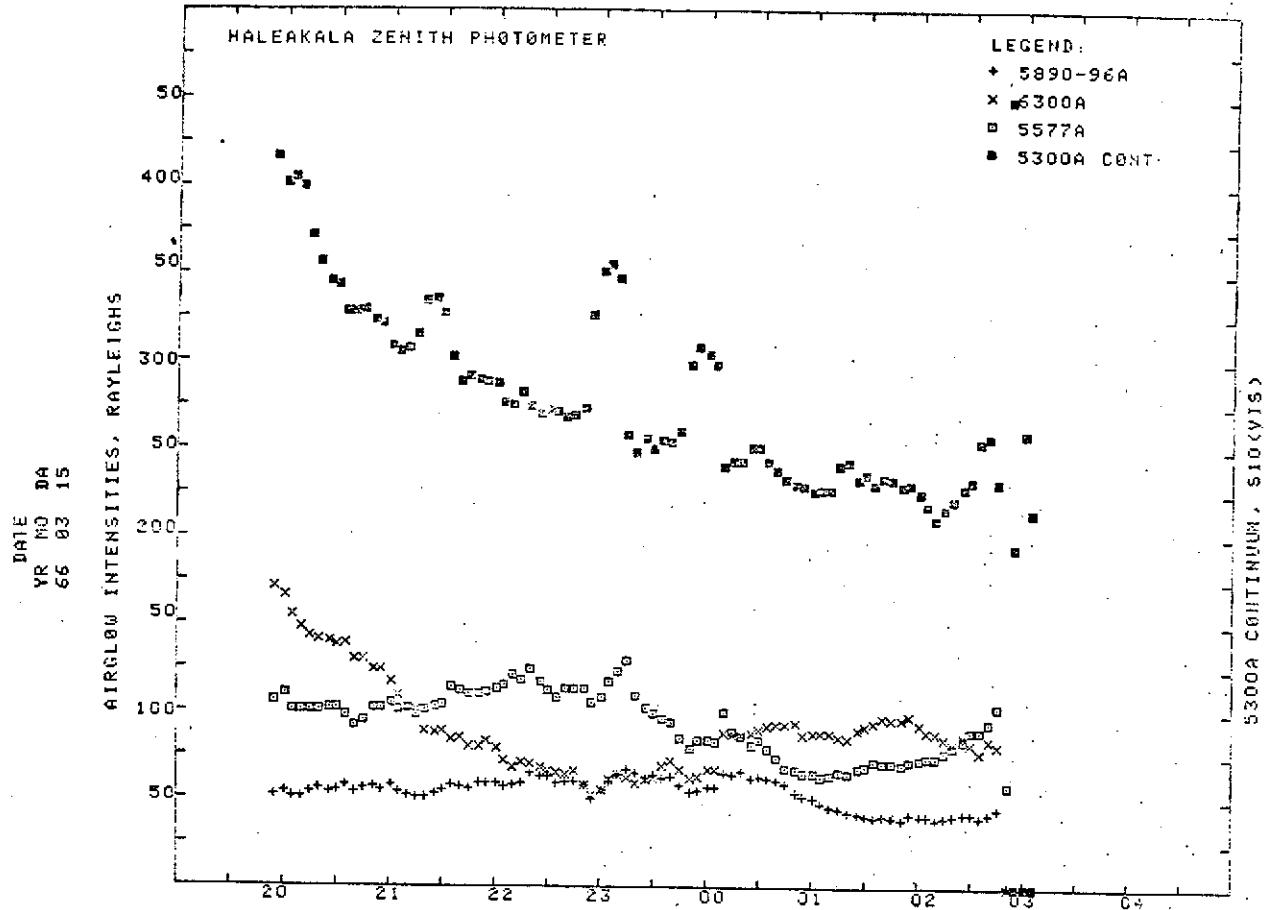


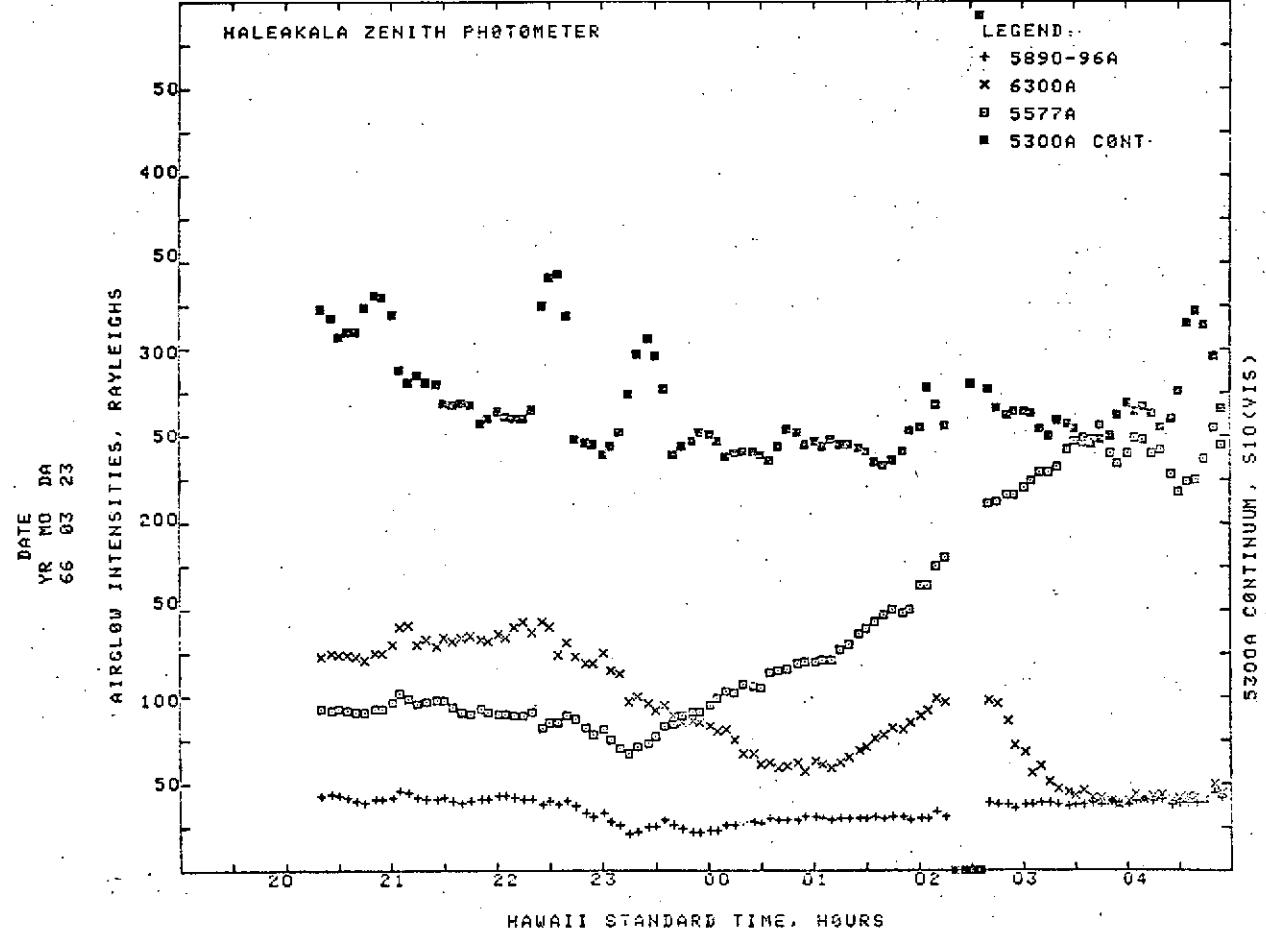
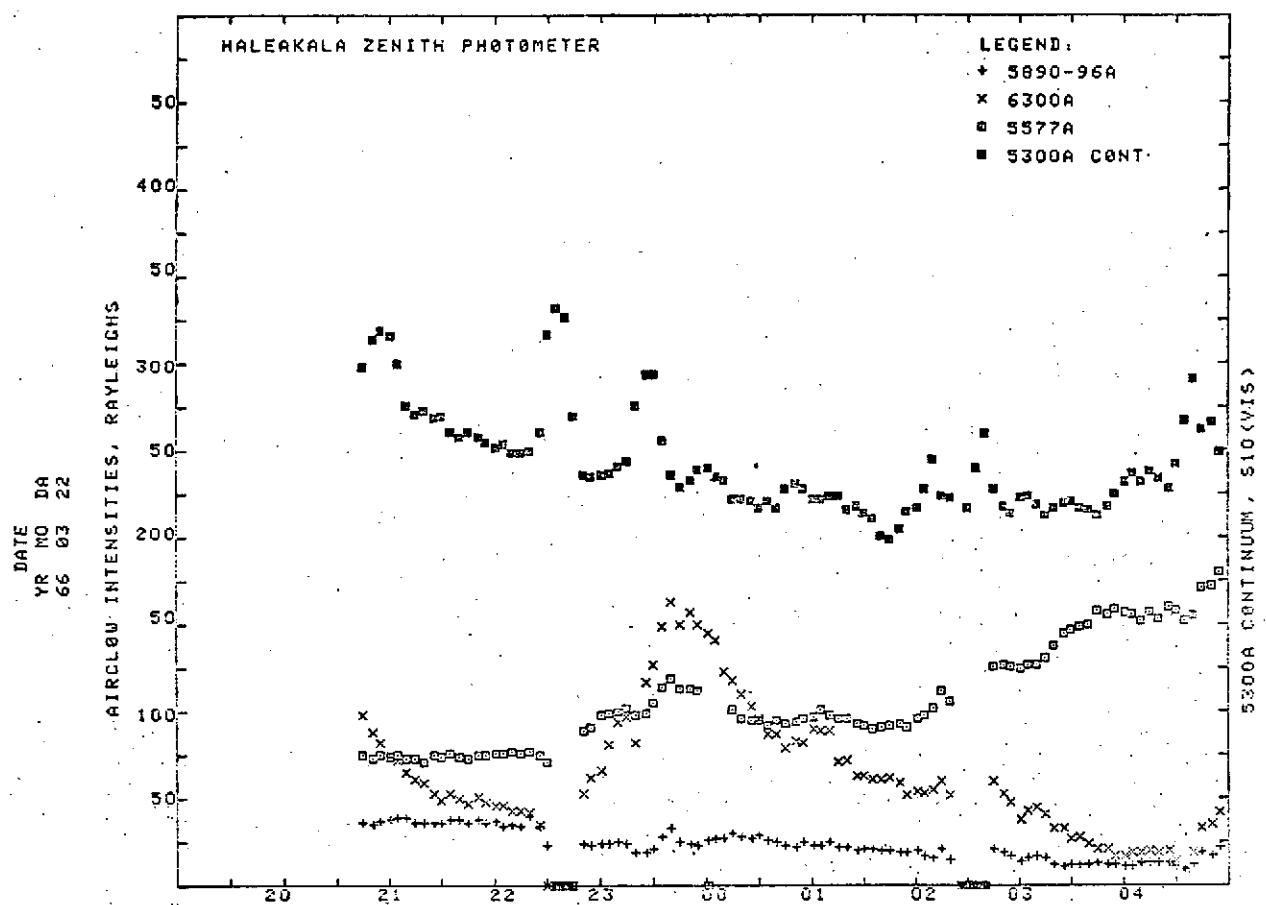


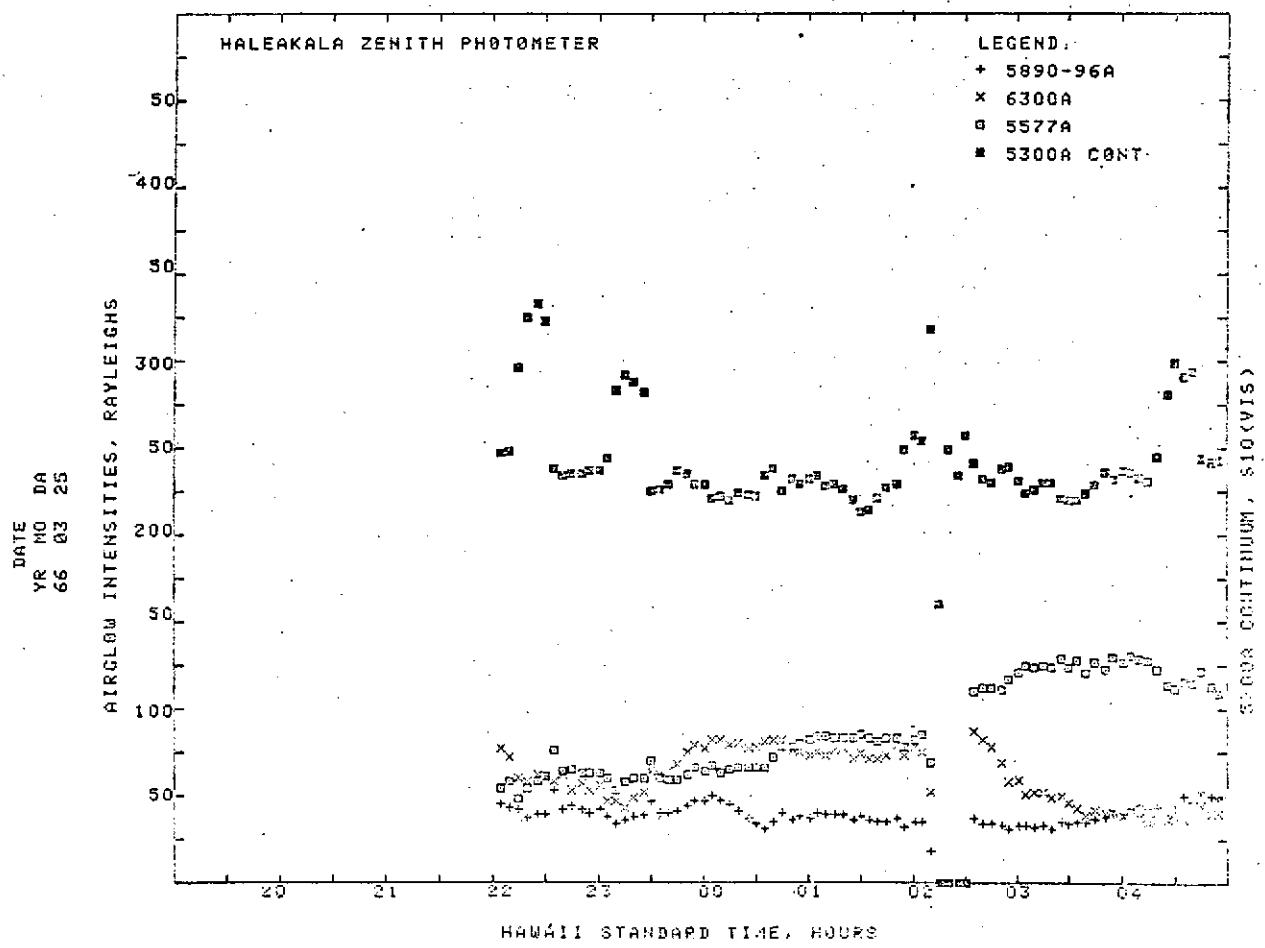
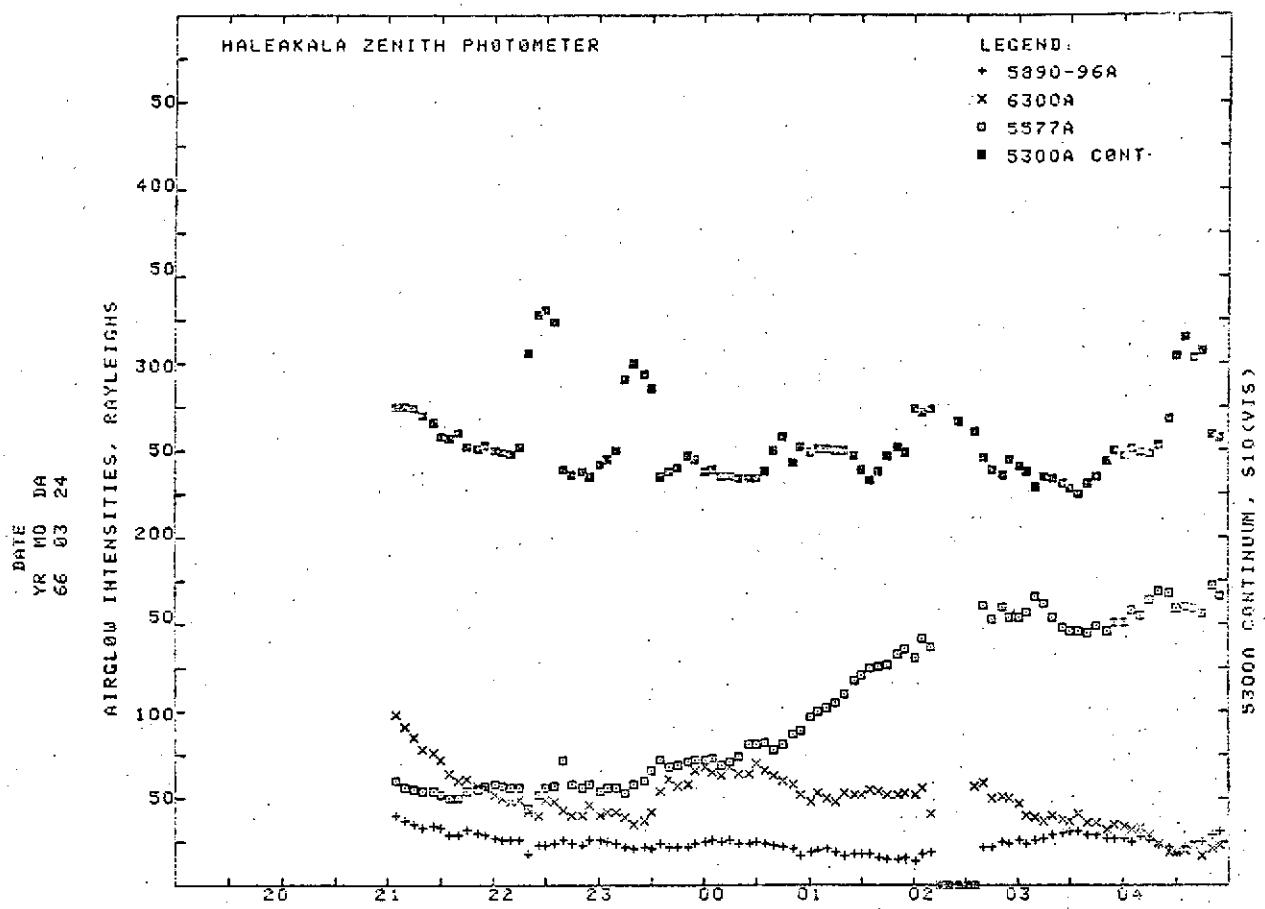






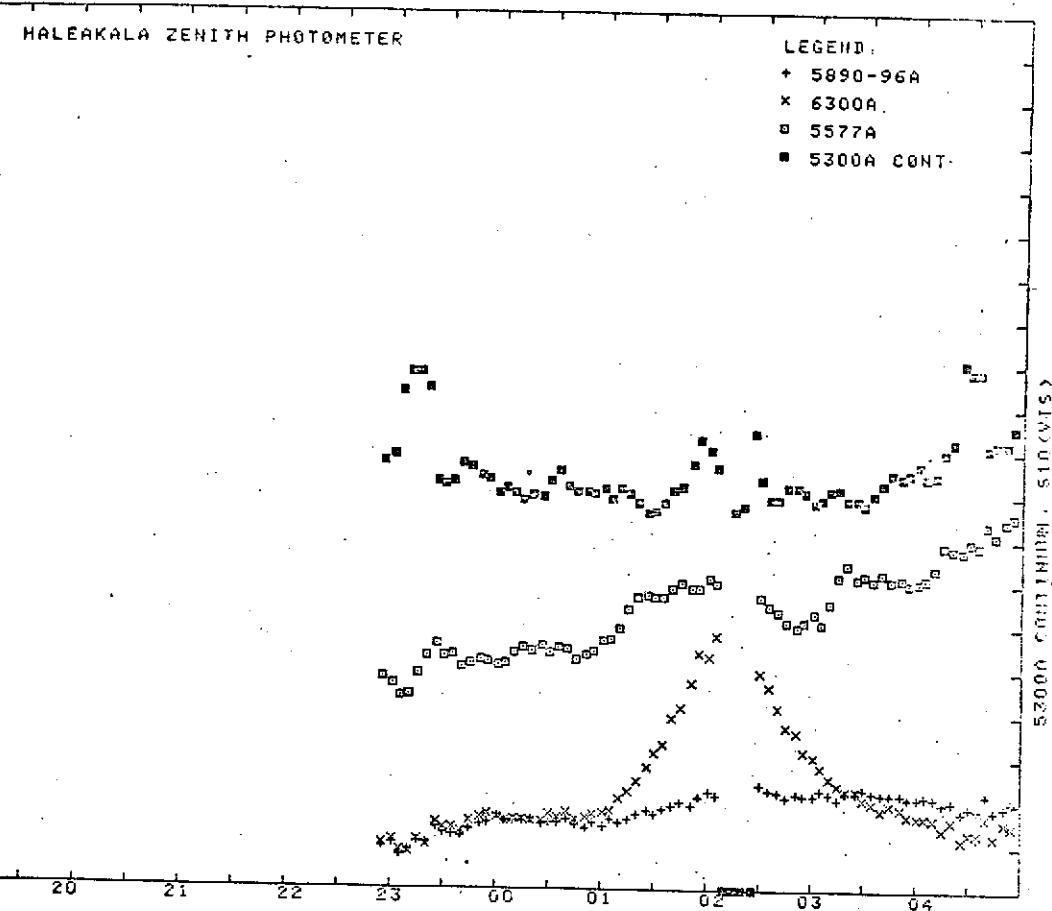






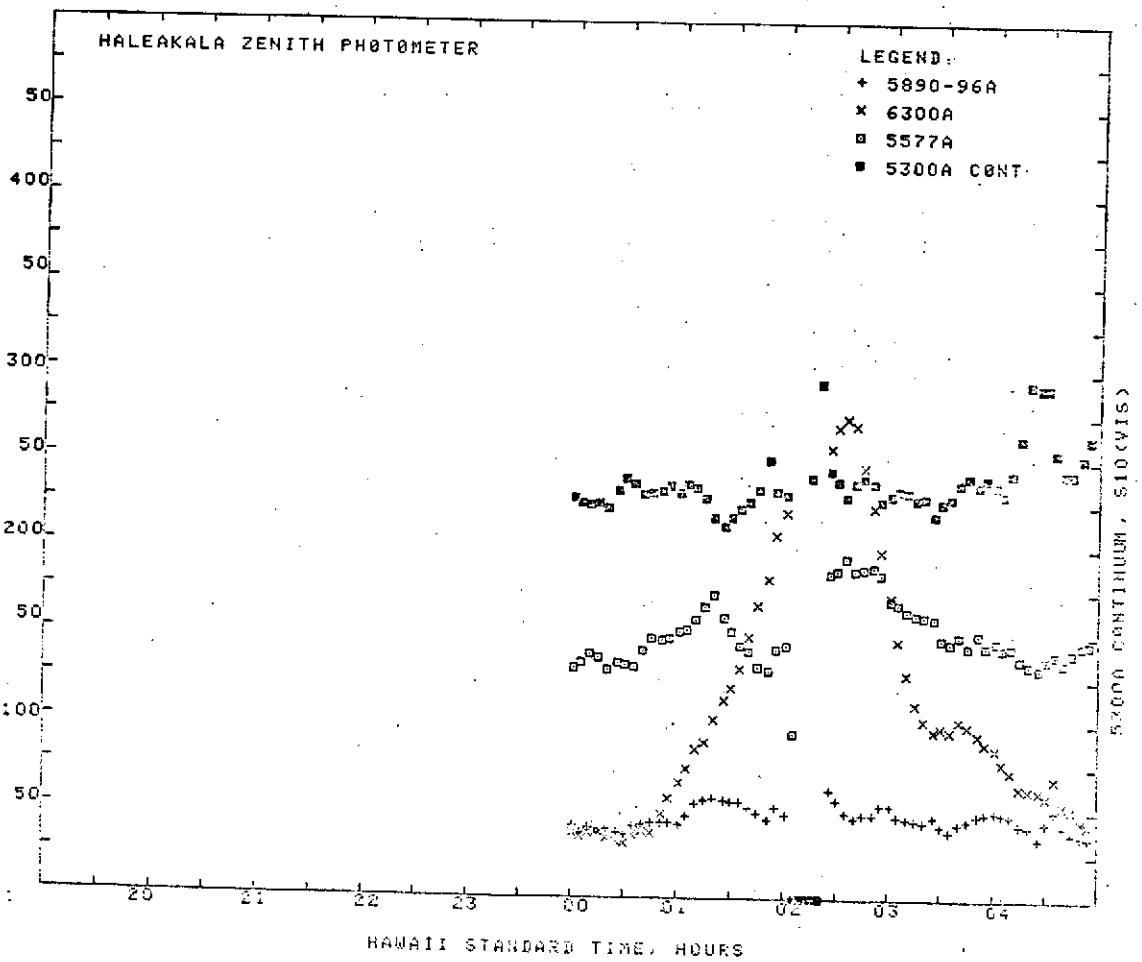
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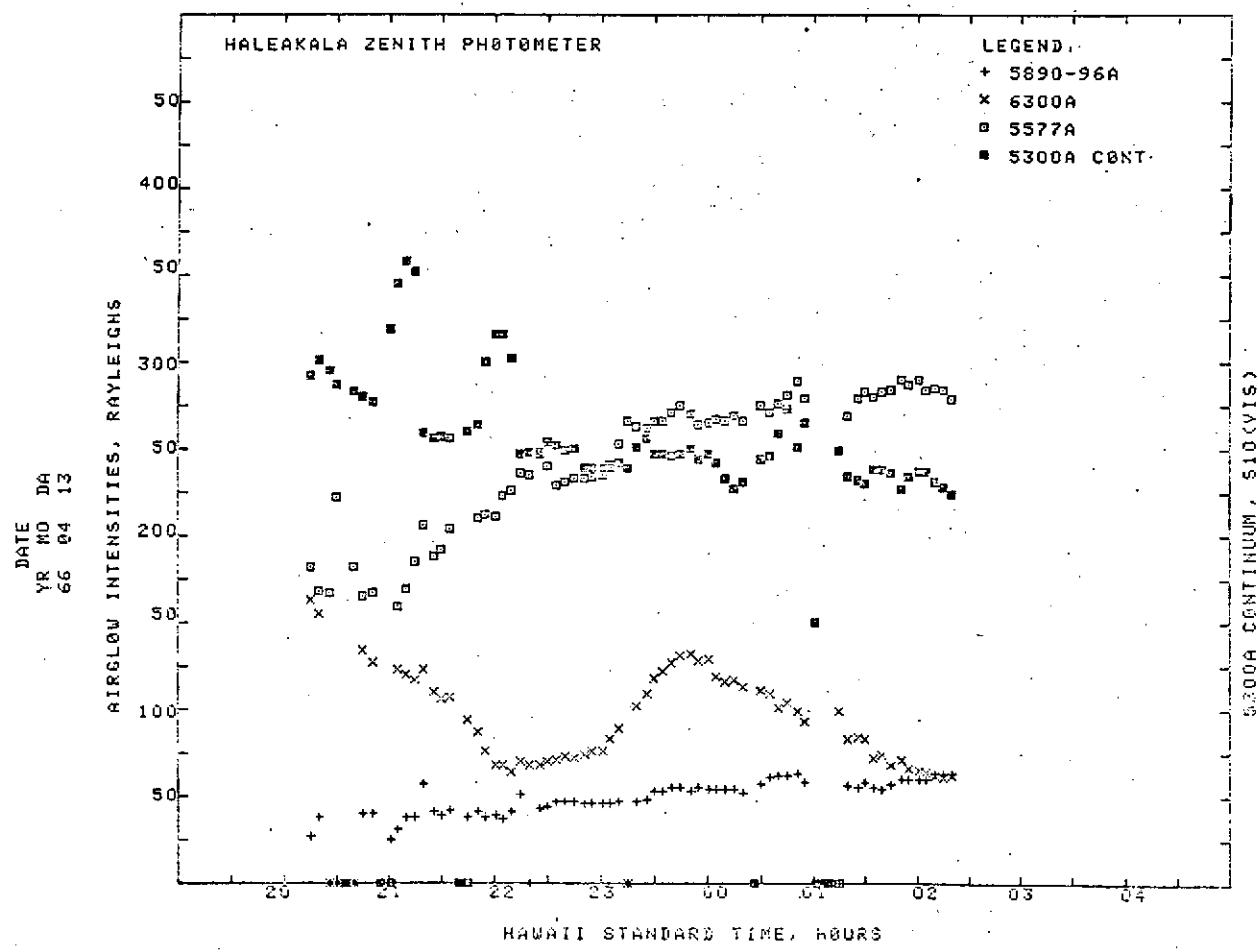
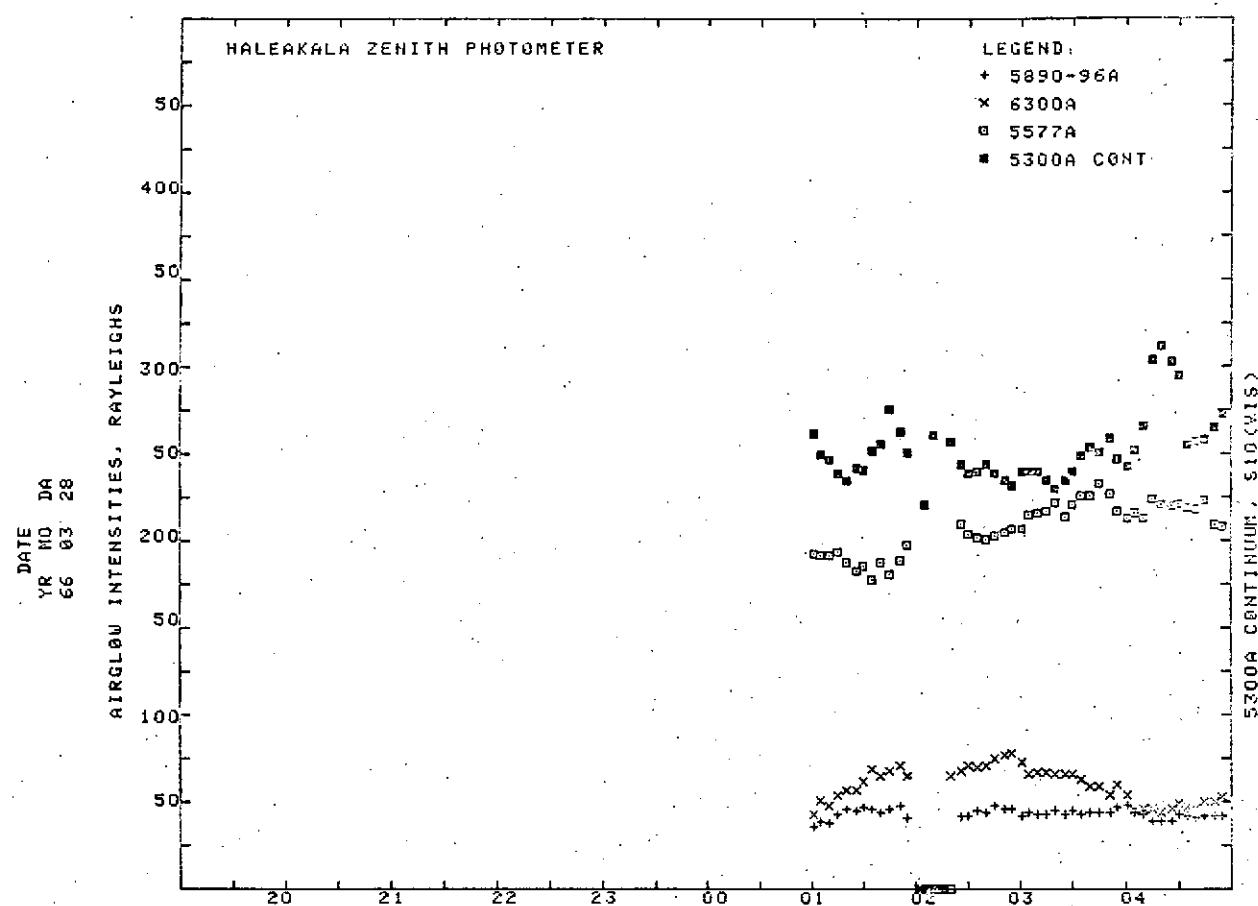
AIRGLOW INTENSITIES, RAYLEIGHS

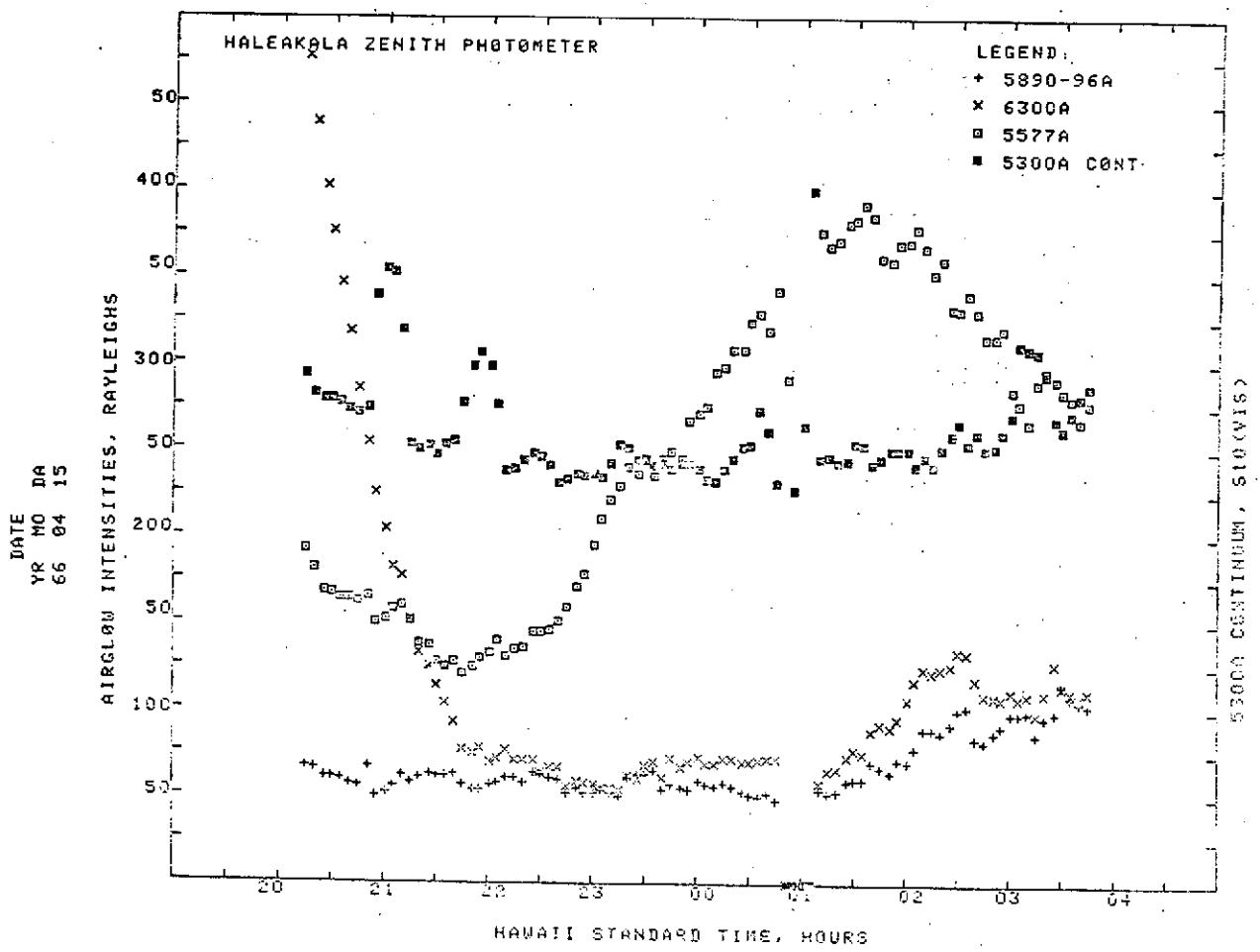
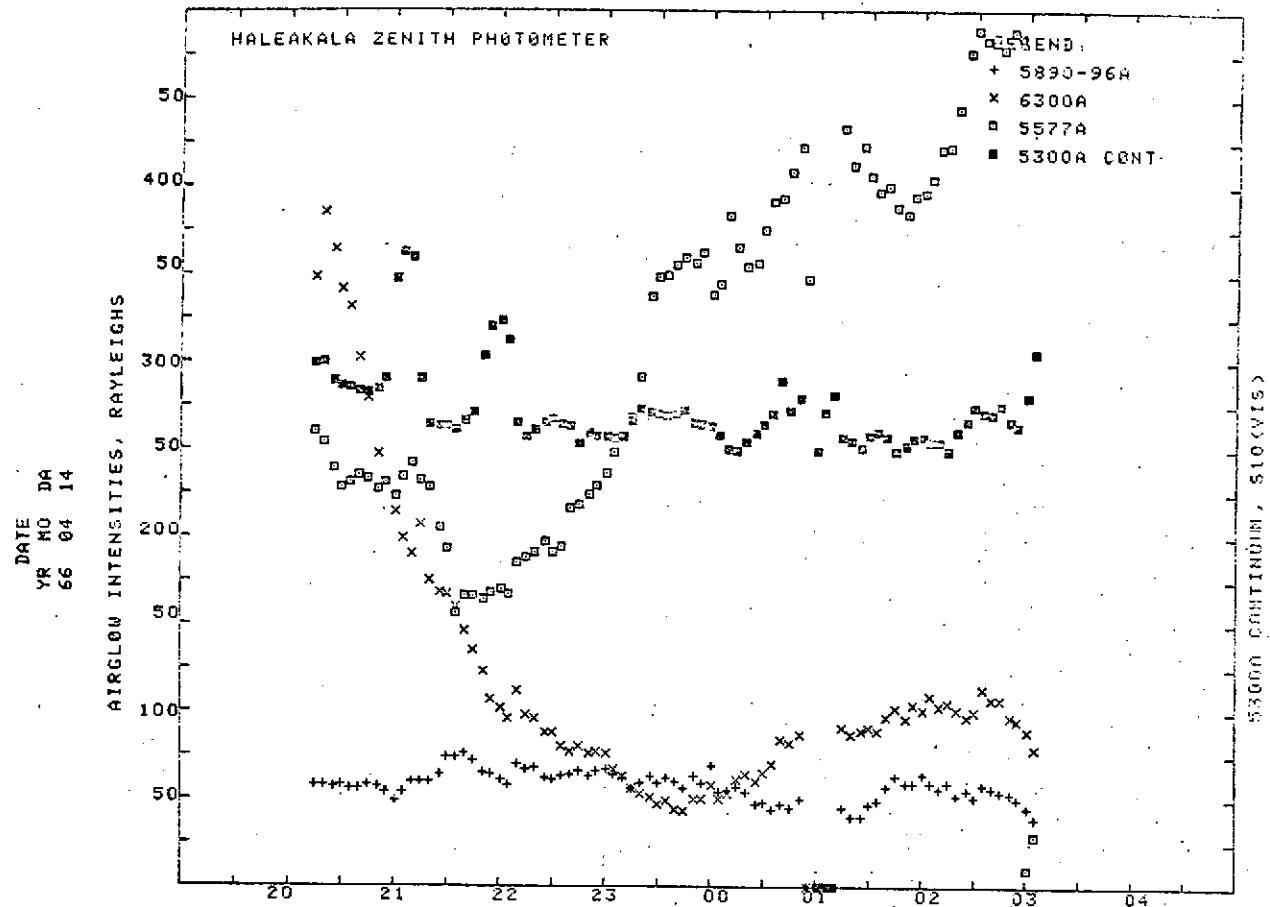


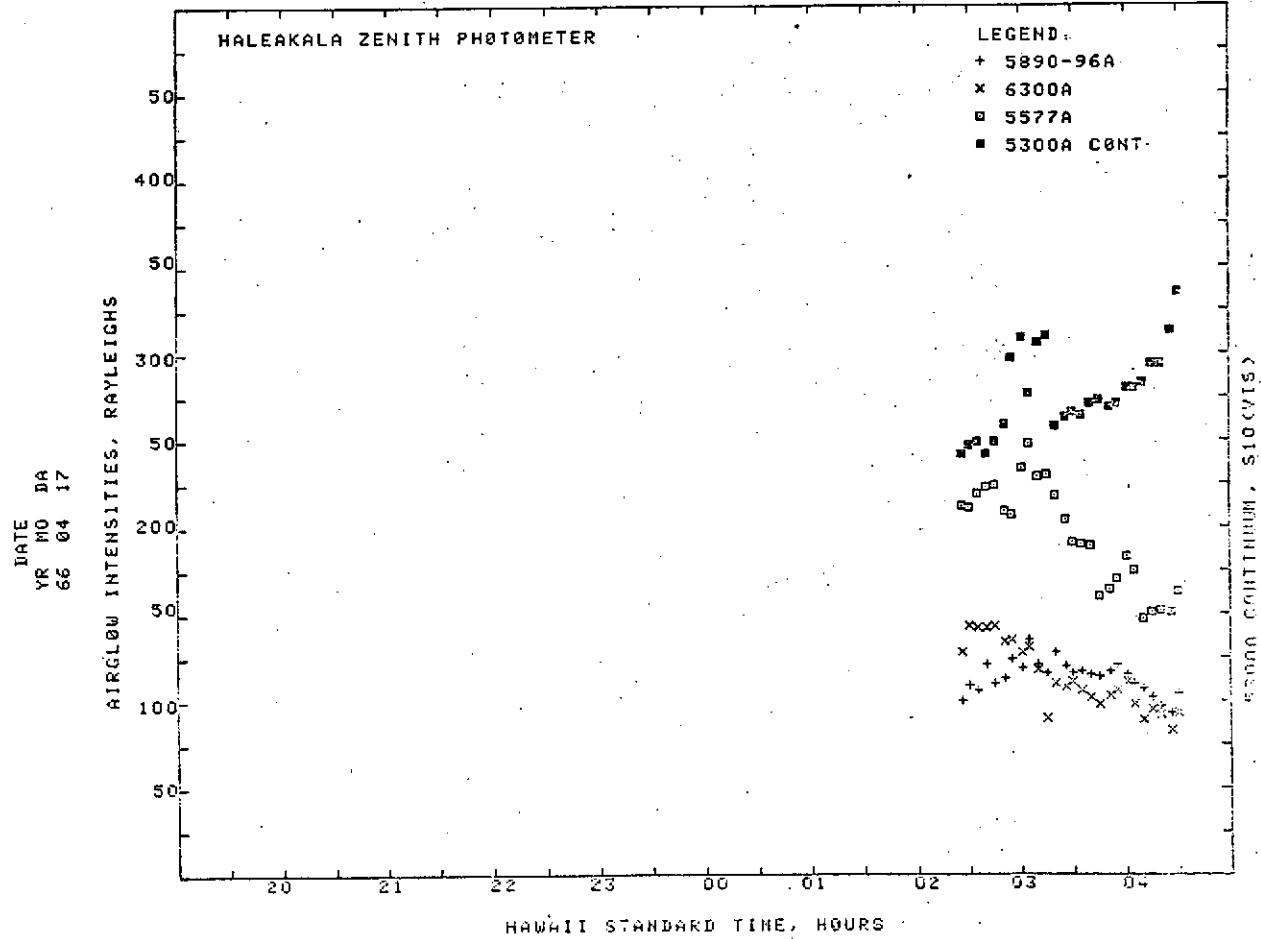
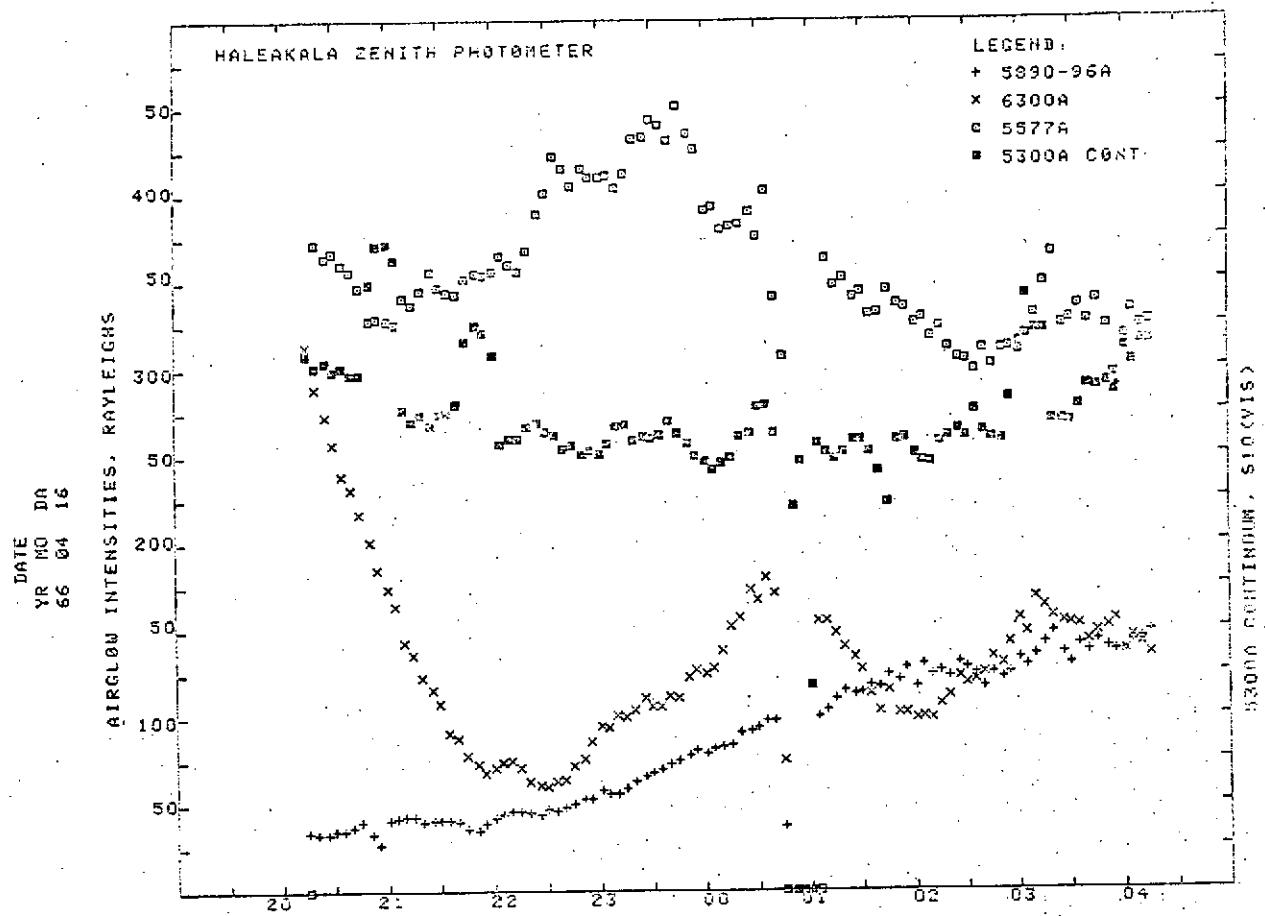
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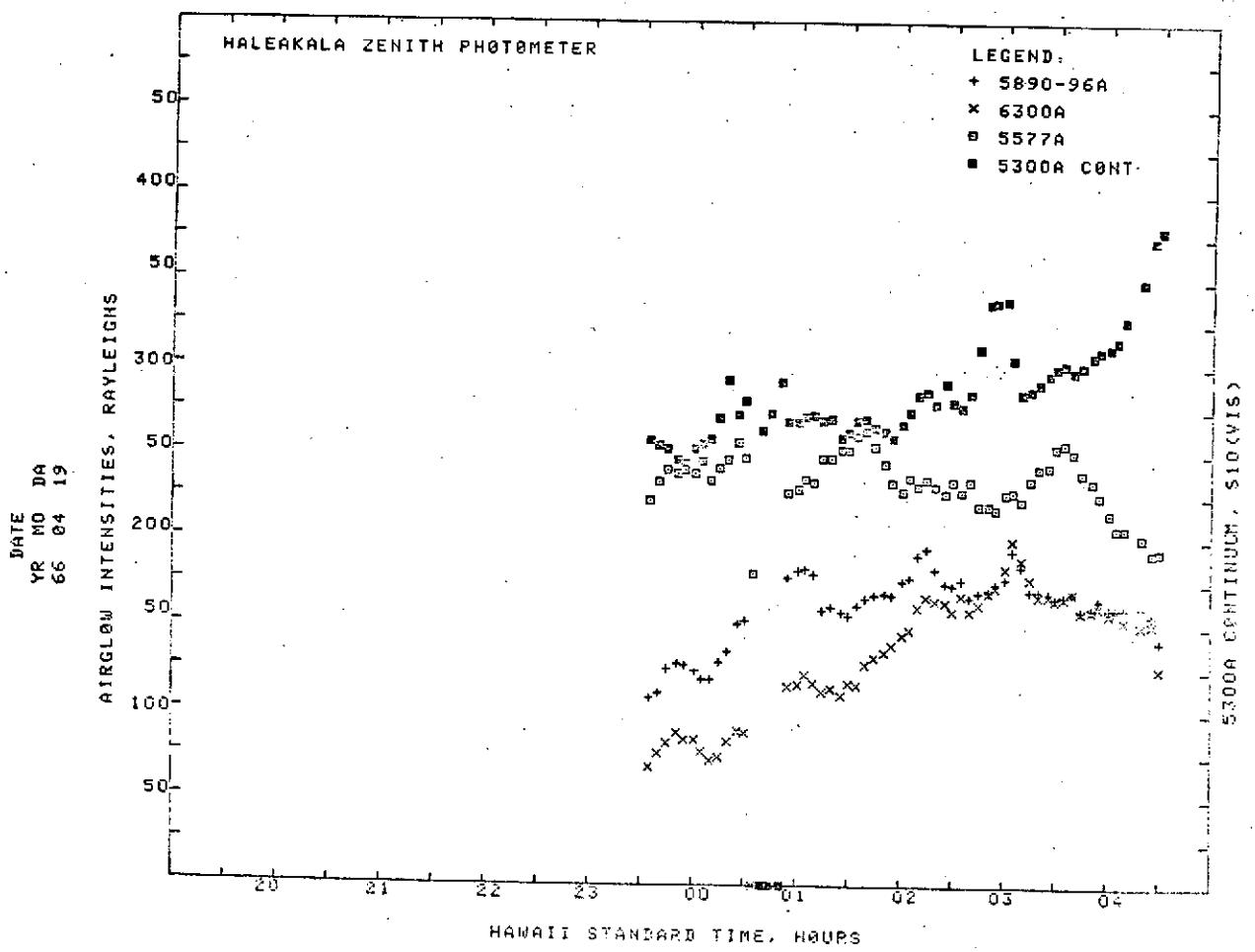
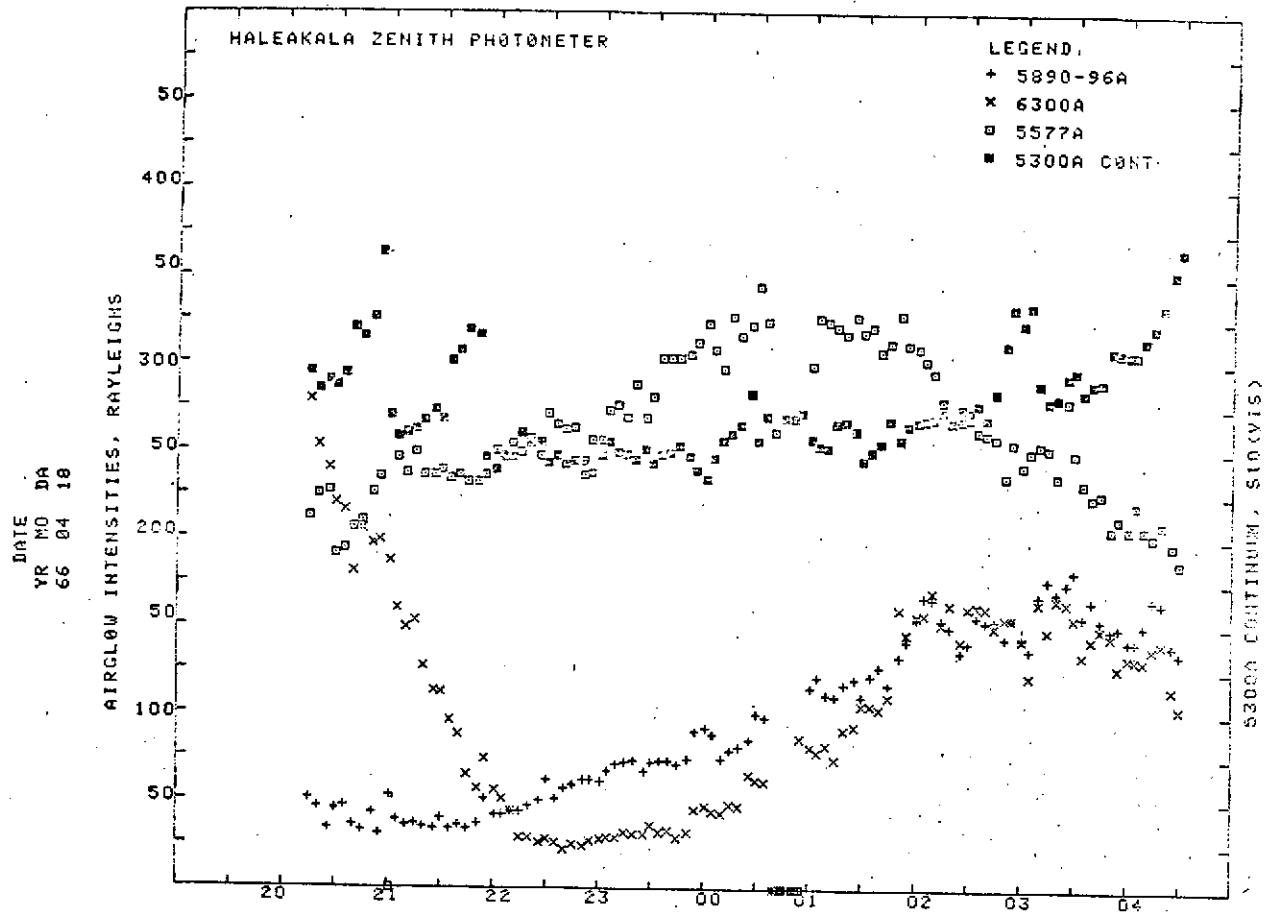
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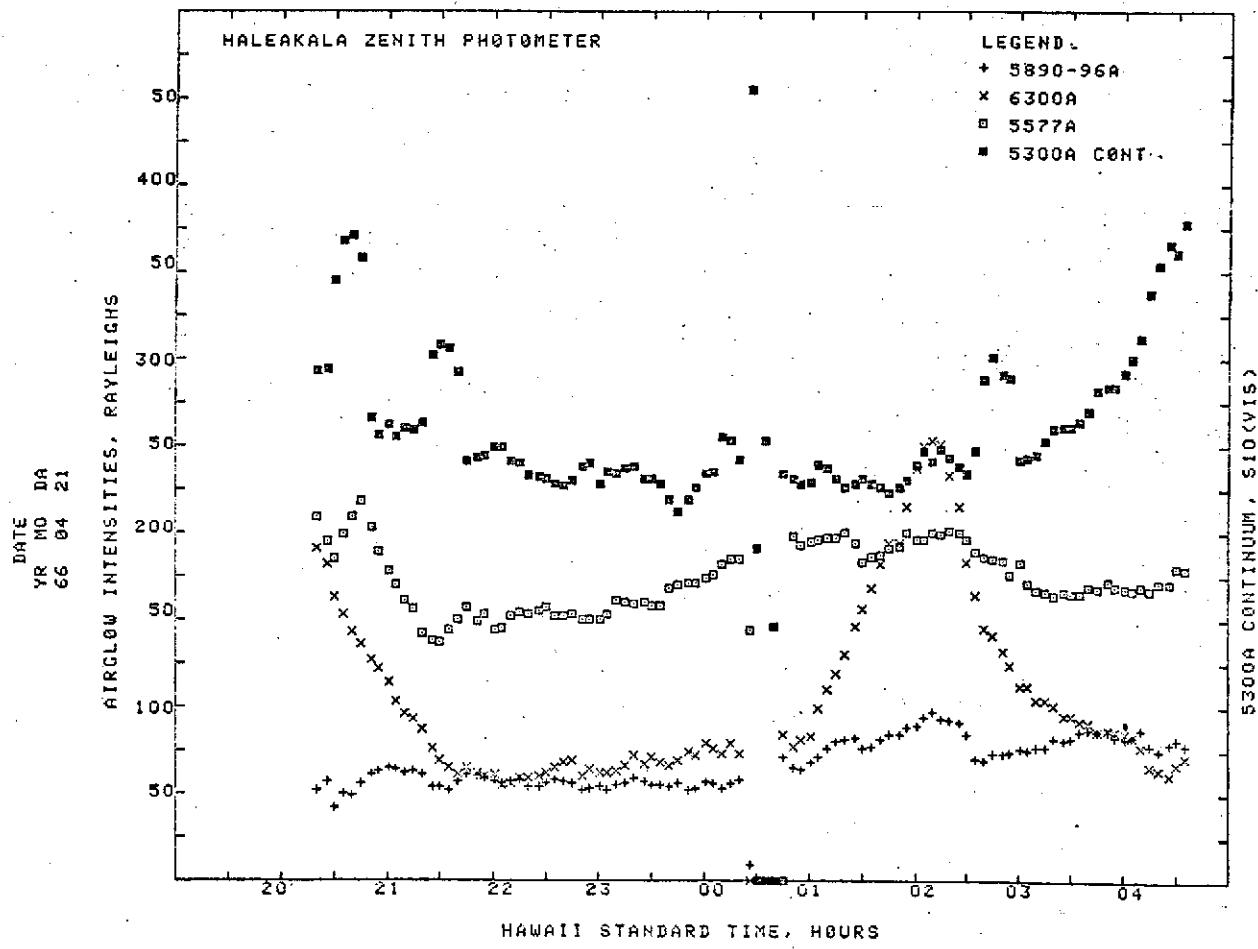
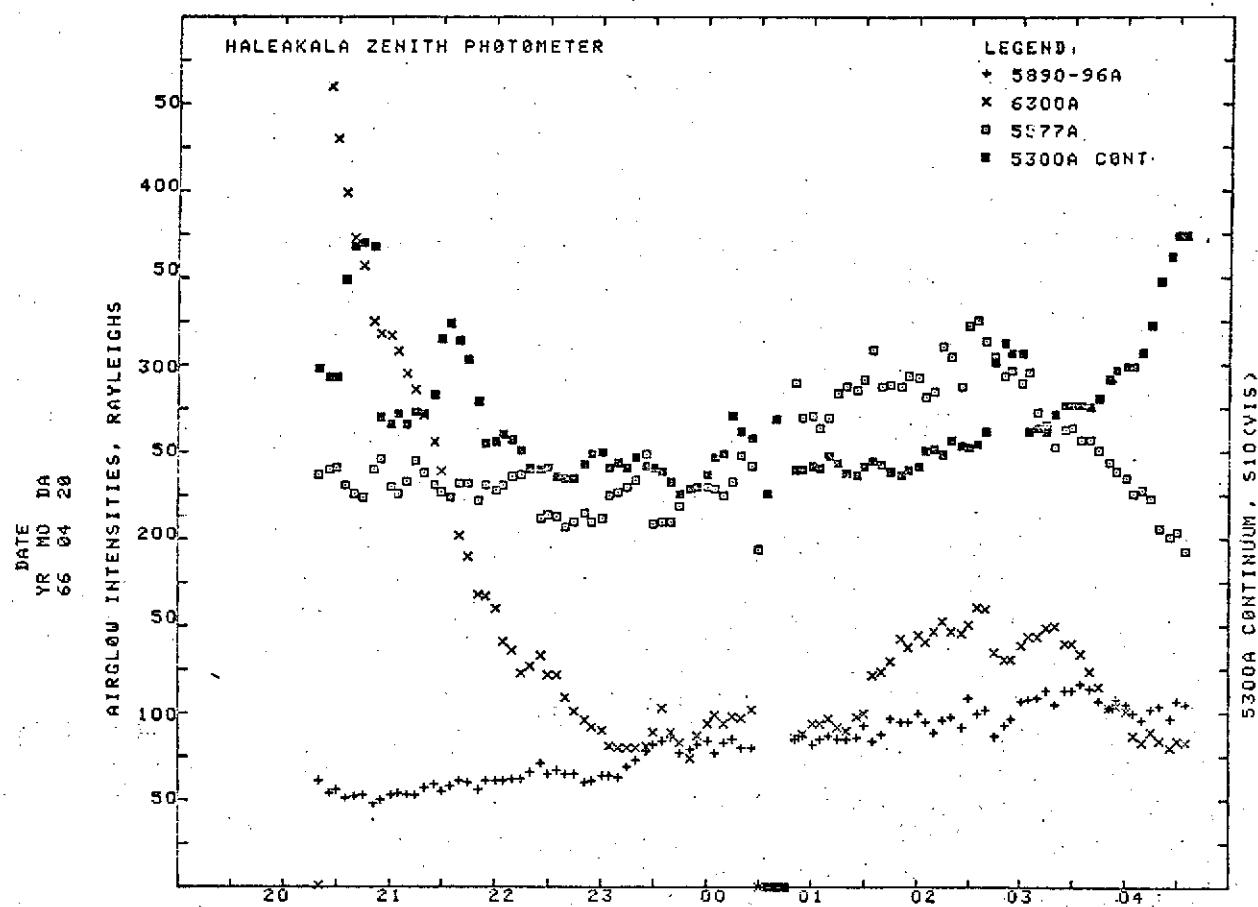


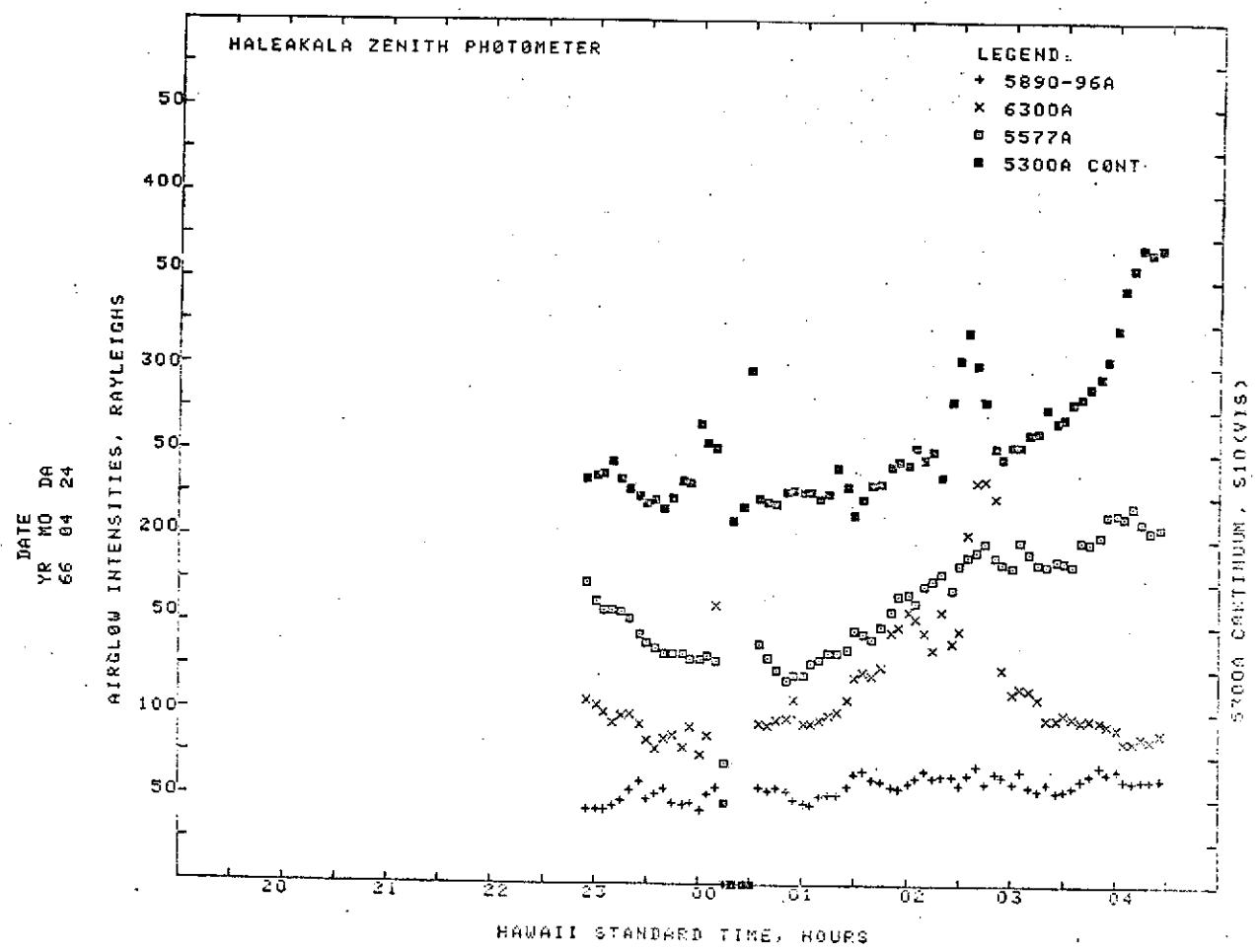
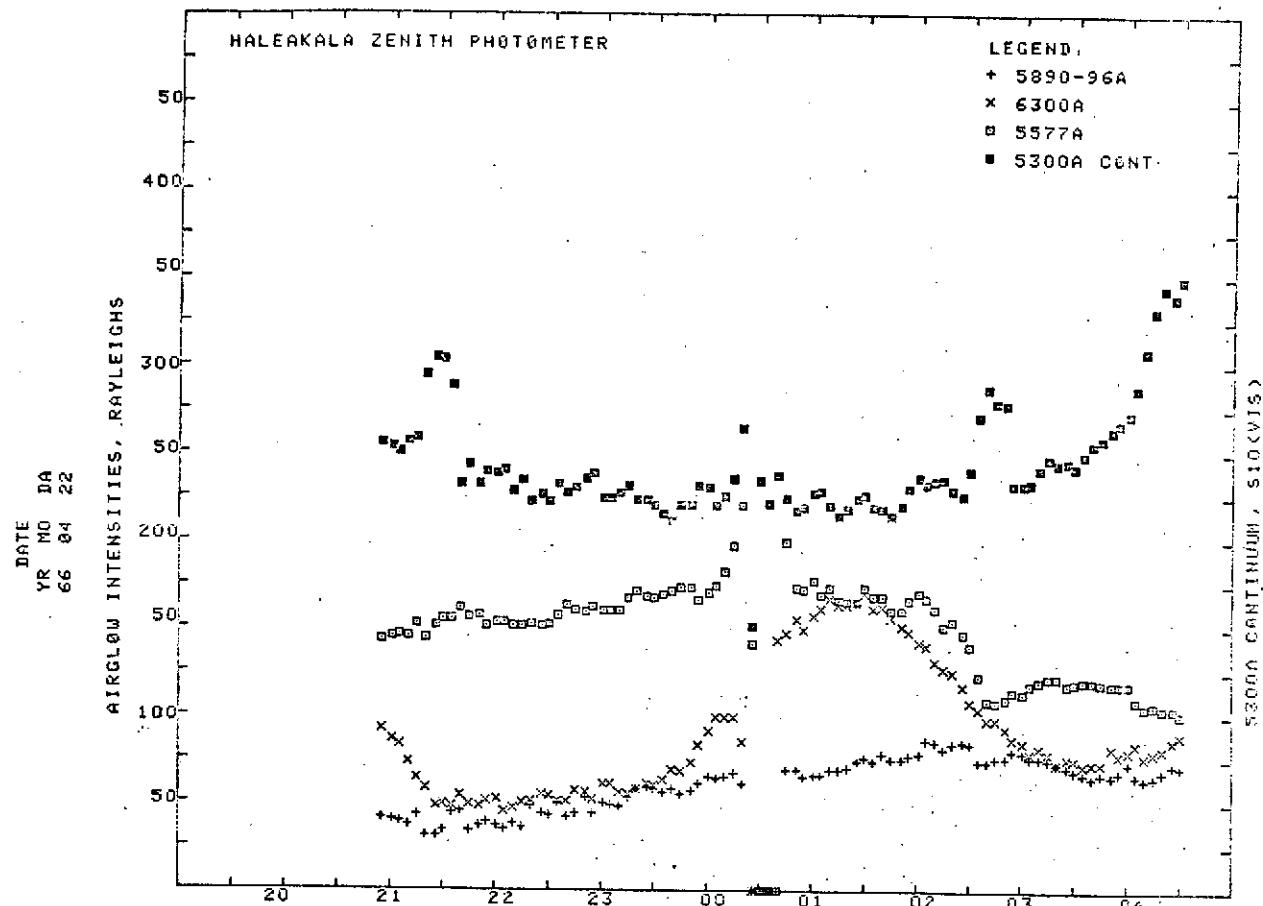


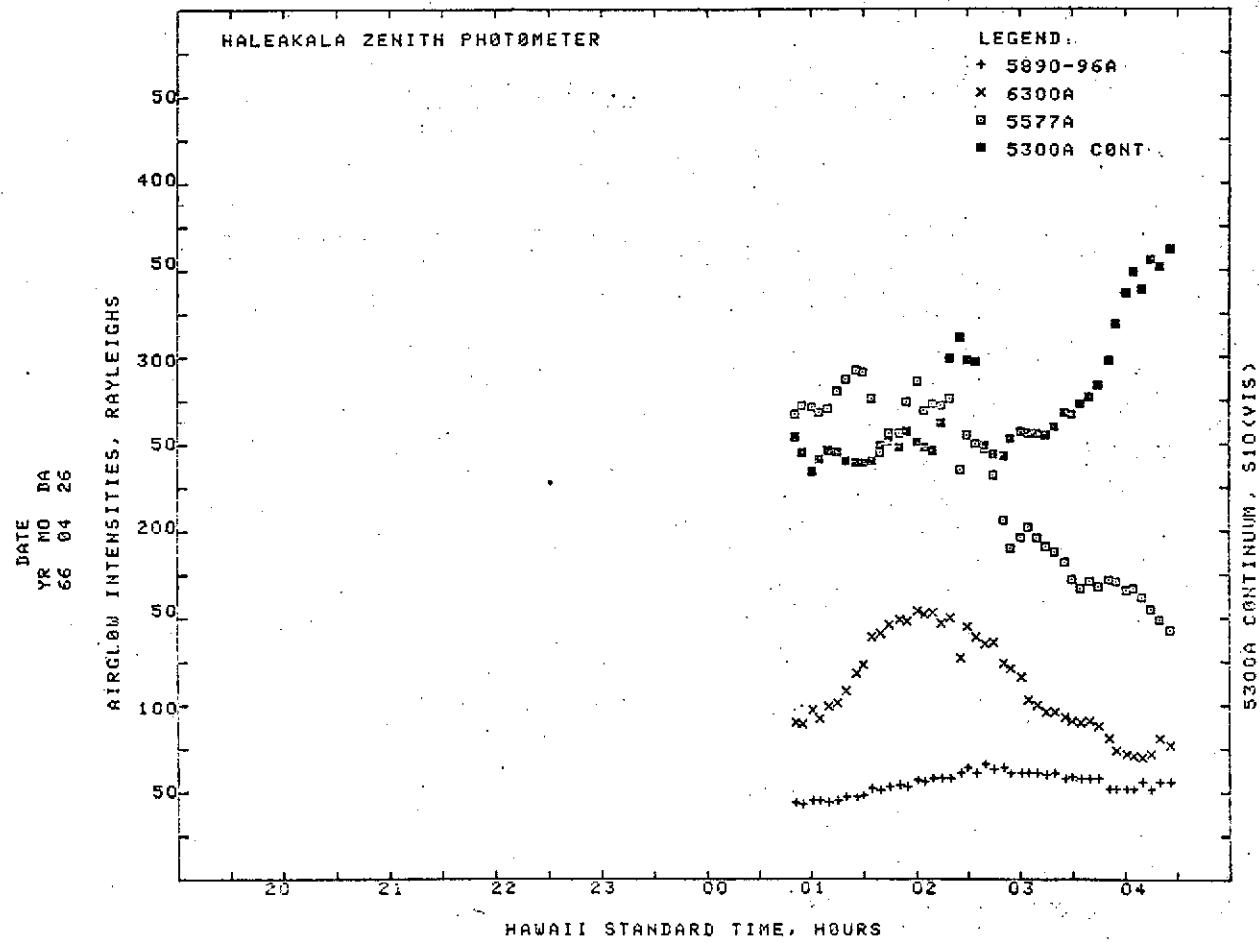
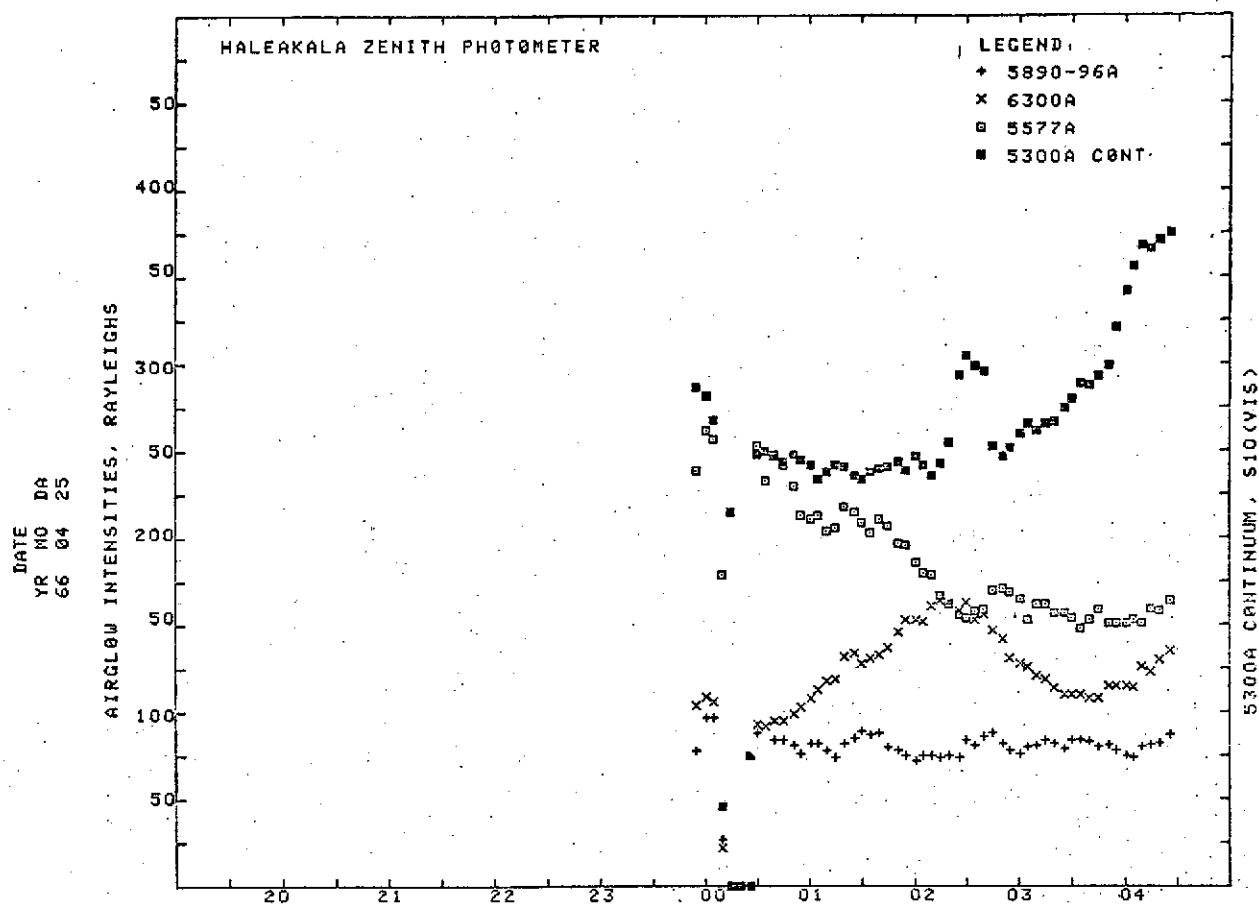


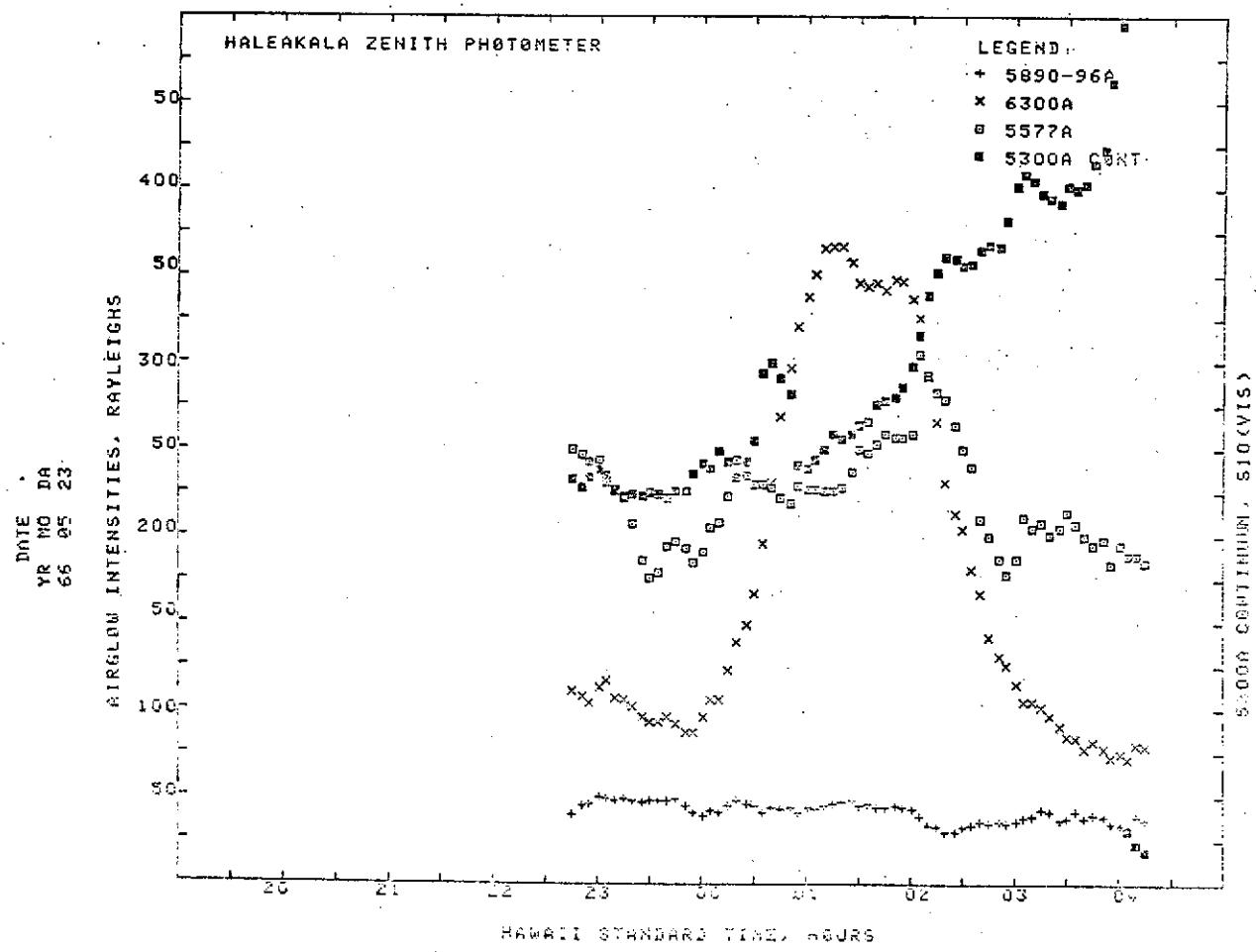
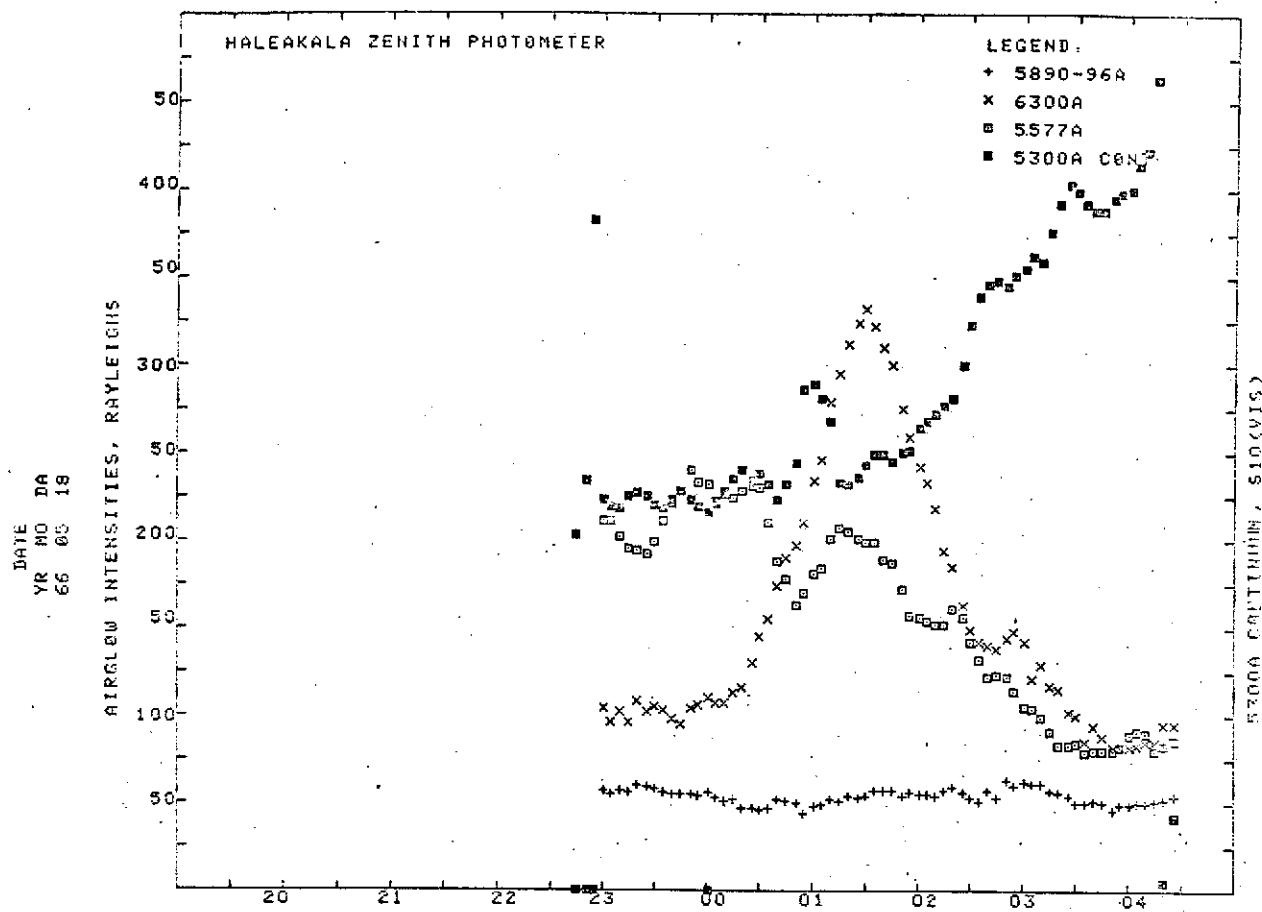






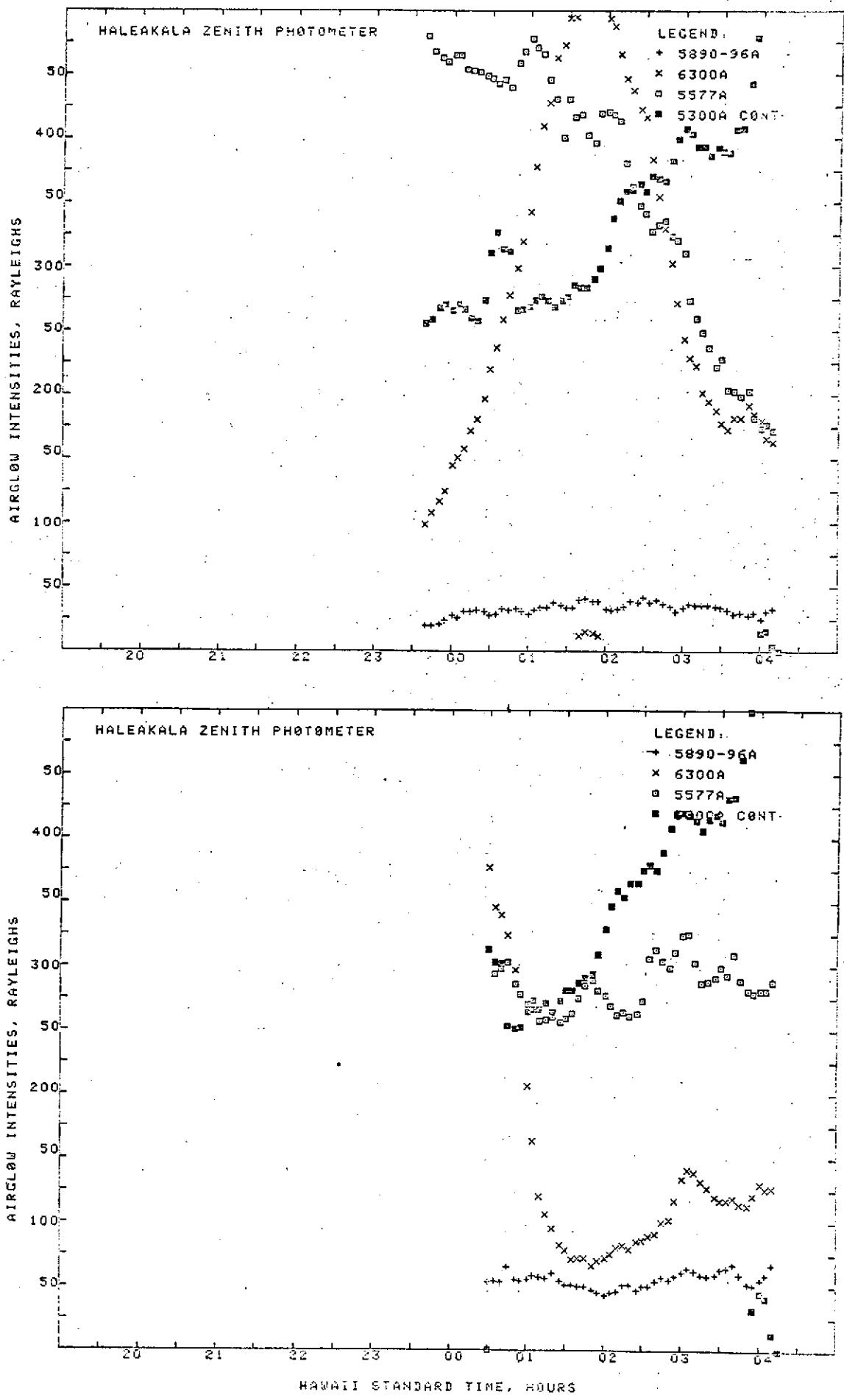




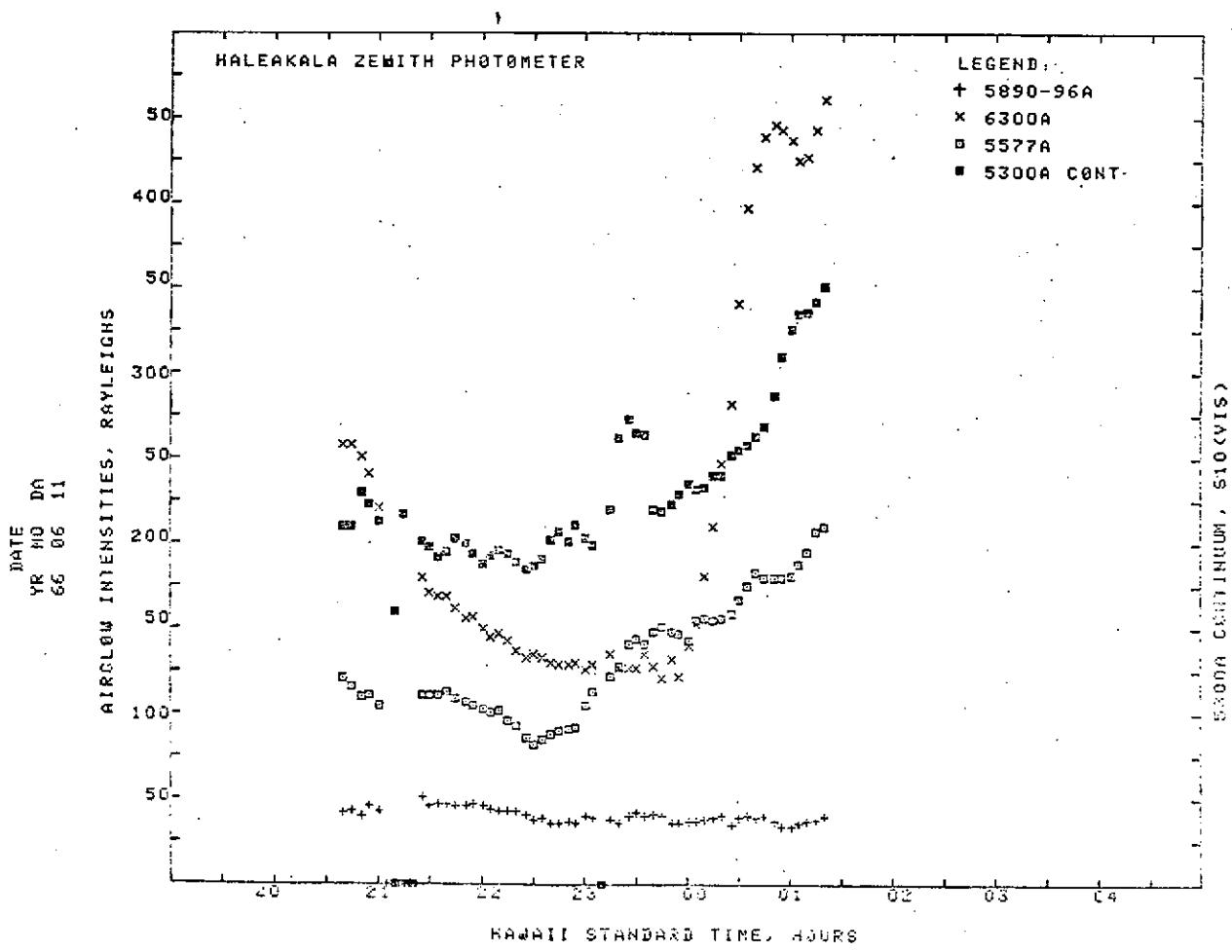
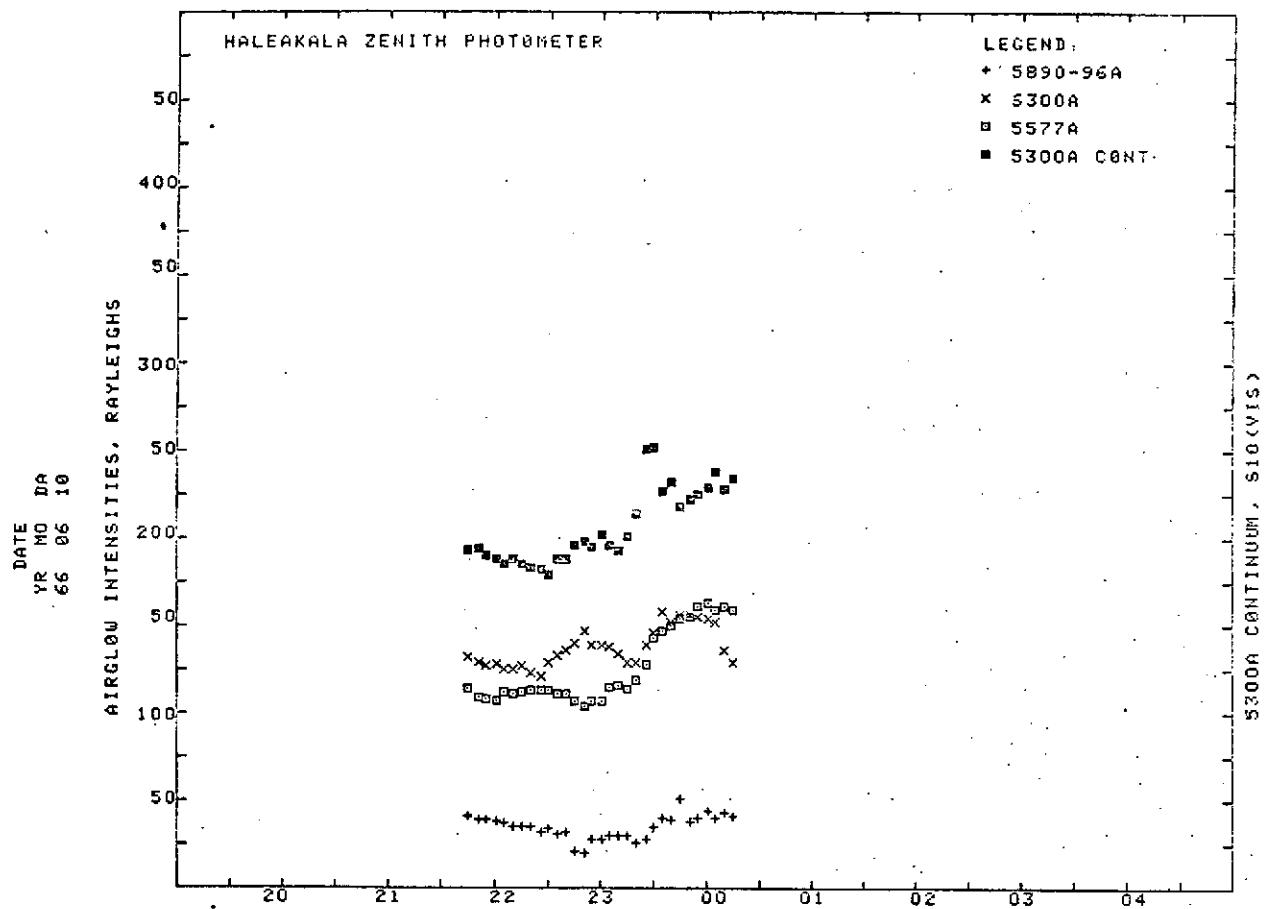


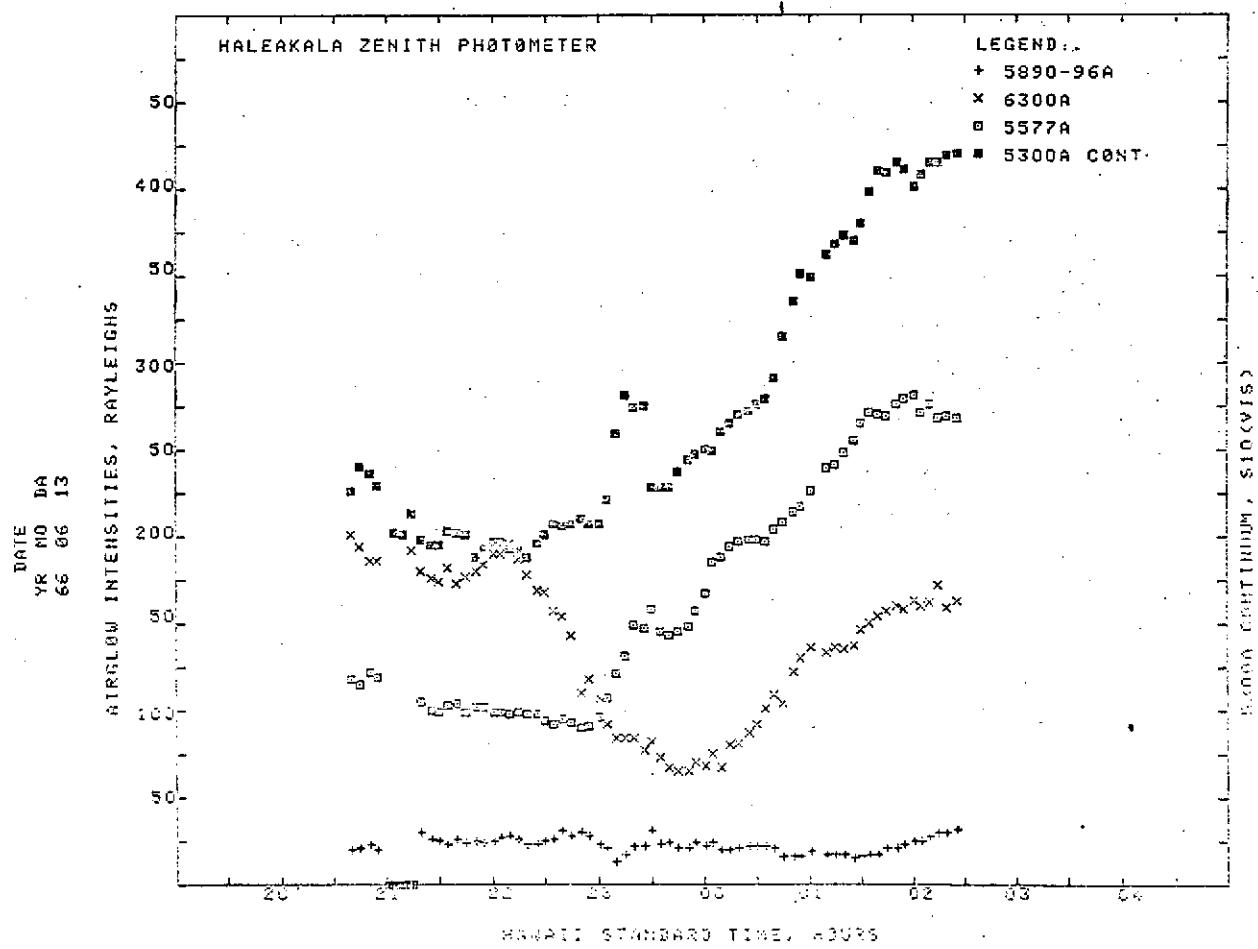
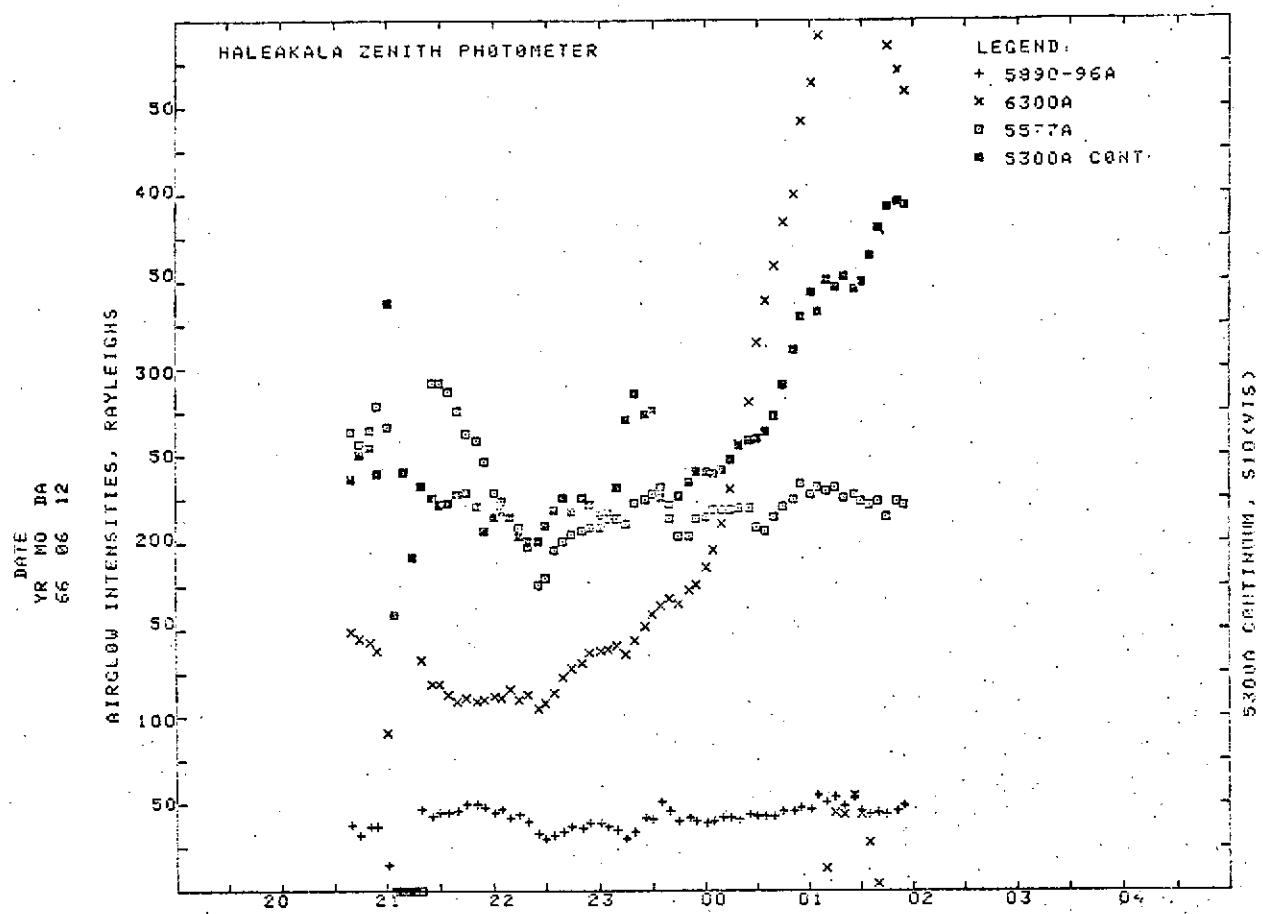
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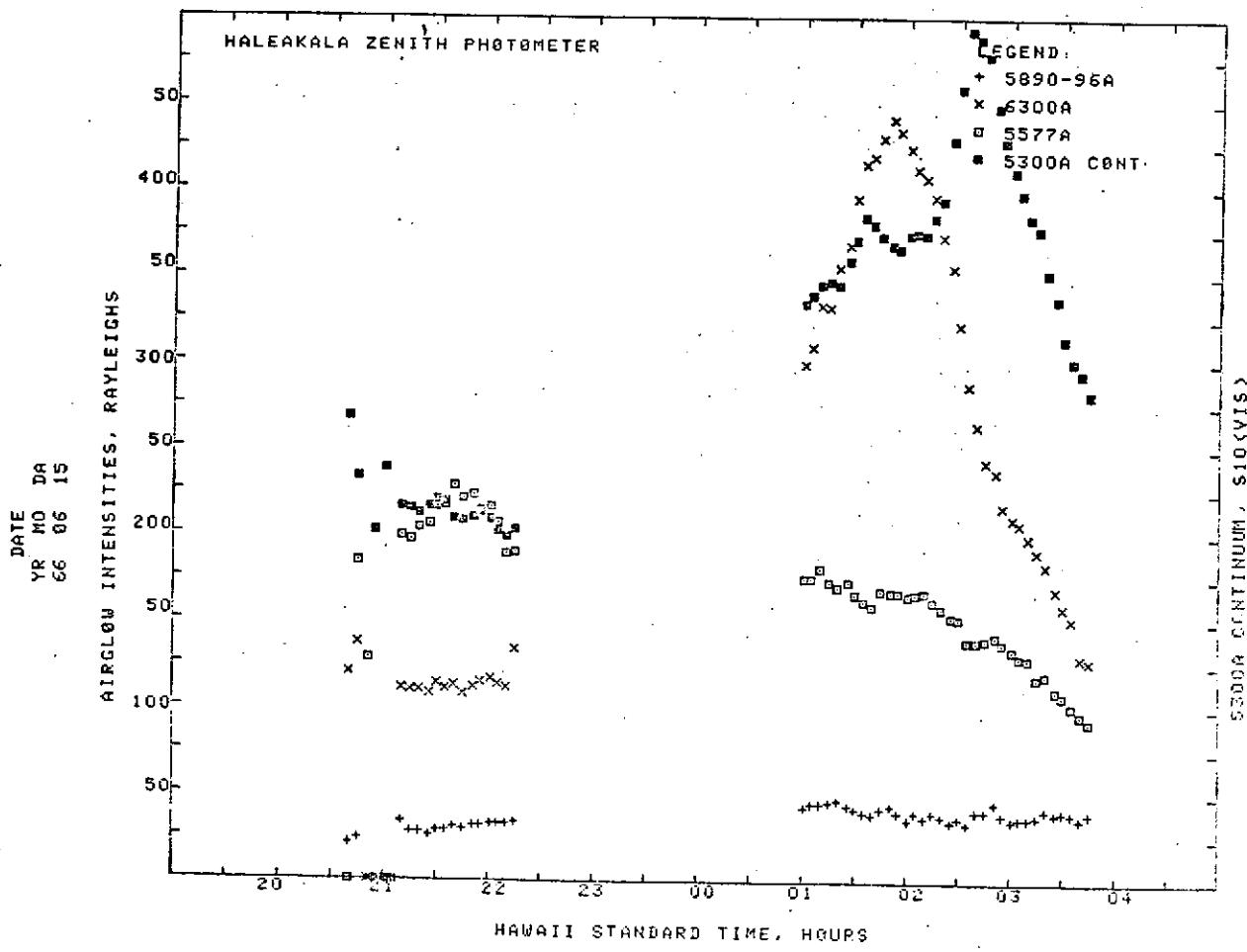
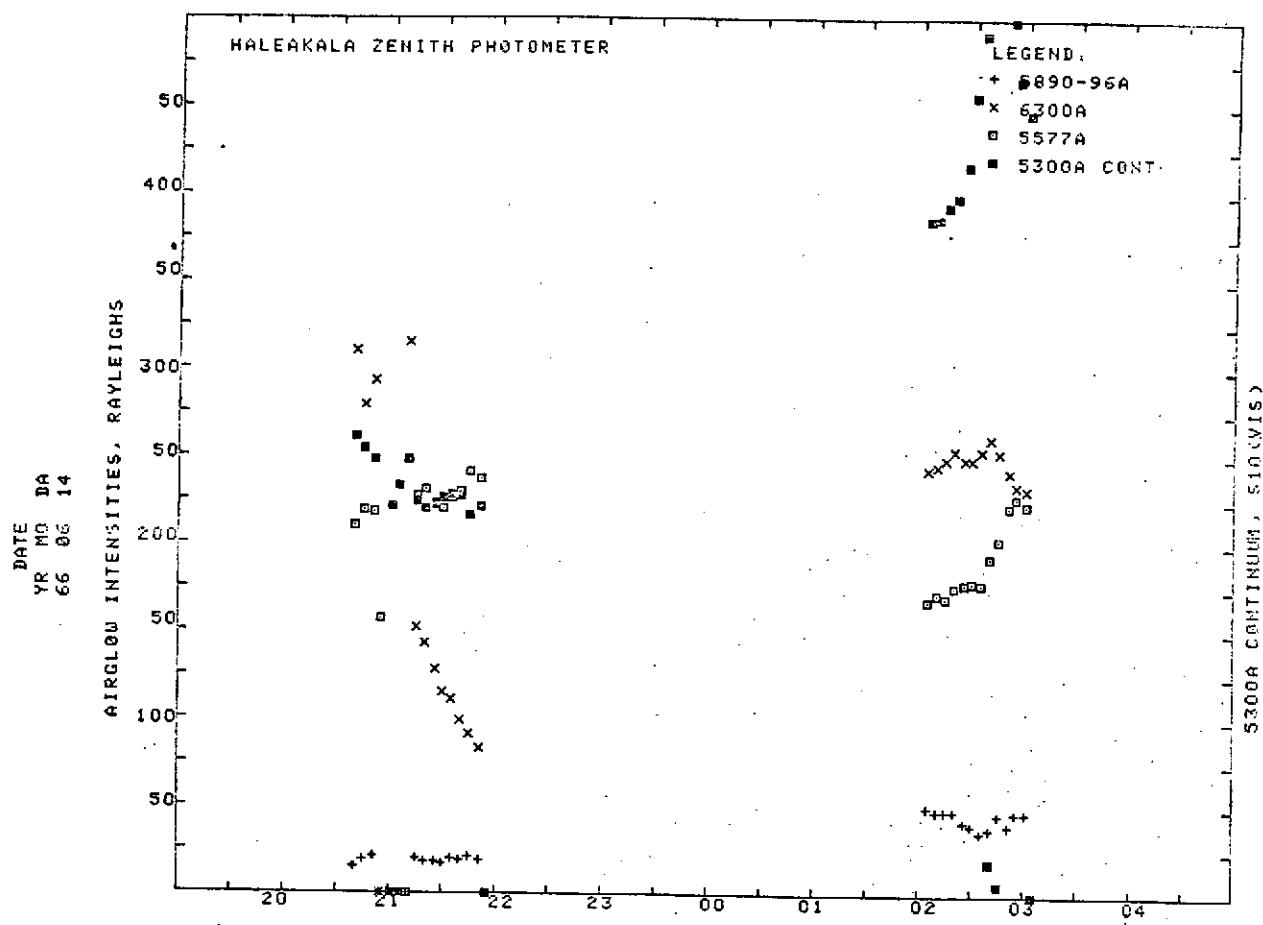
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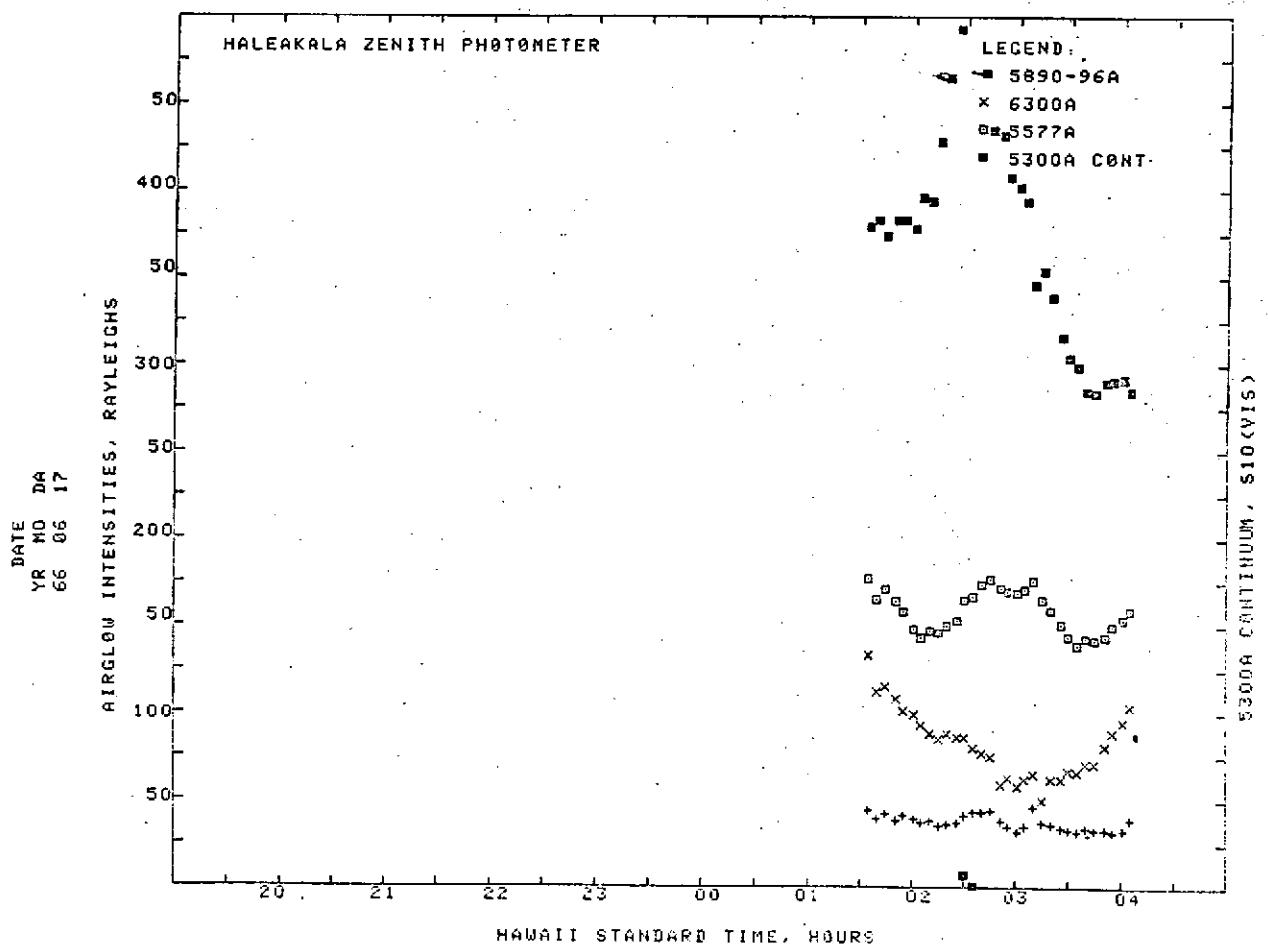
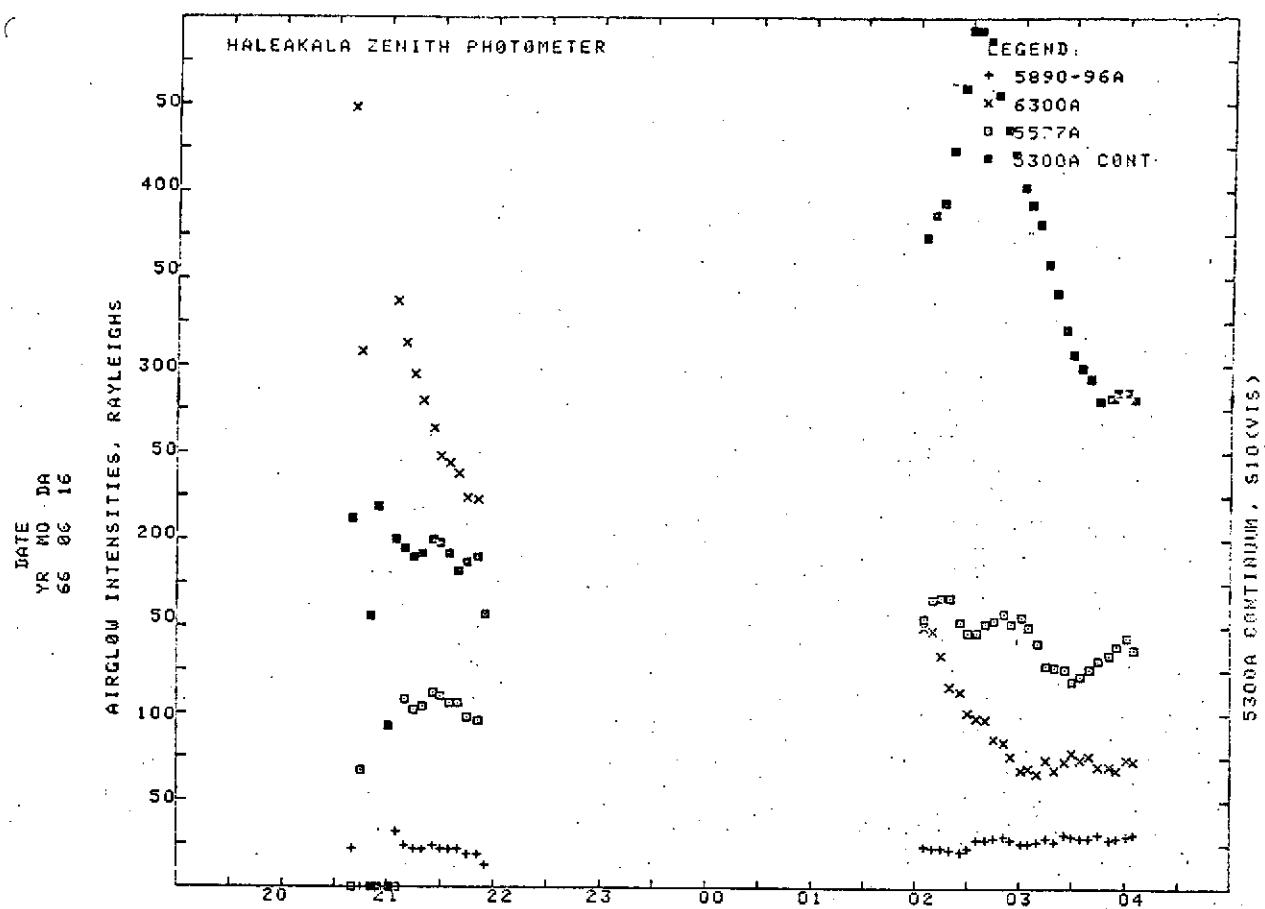


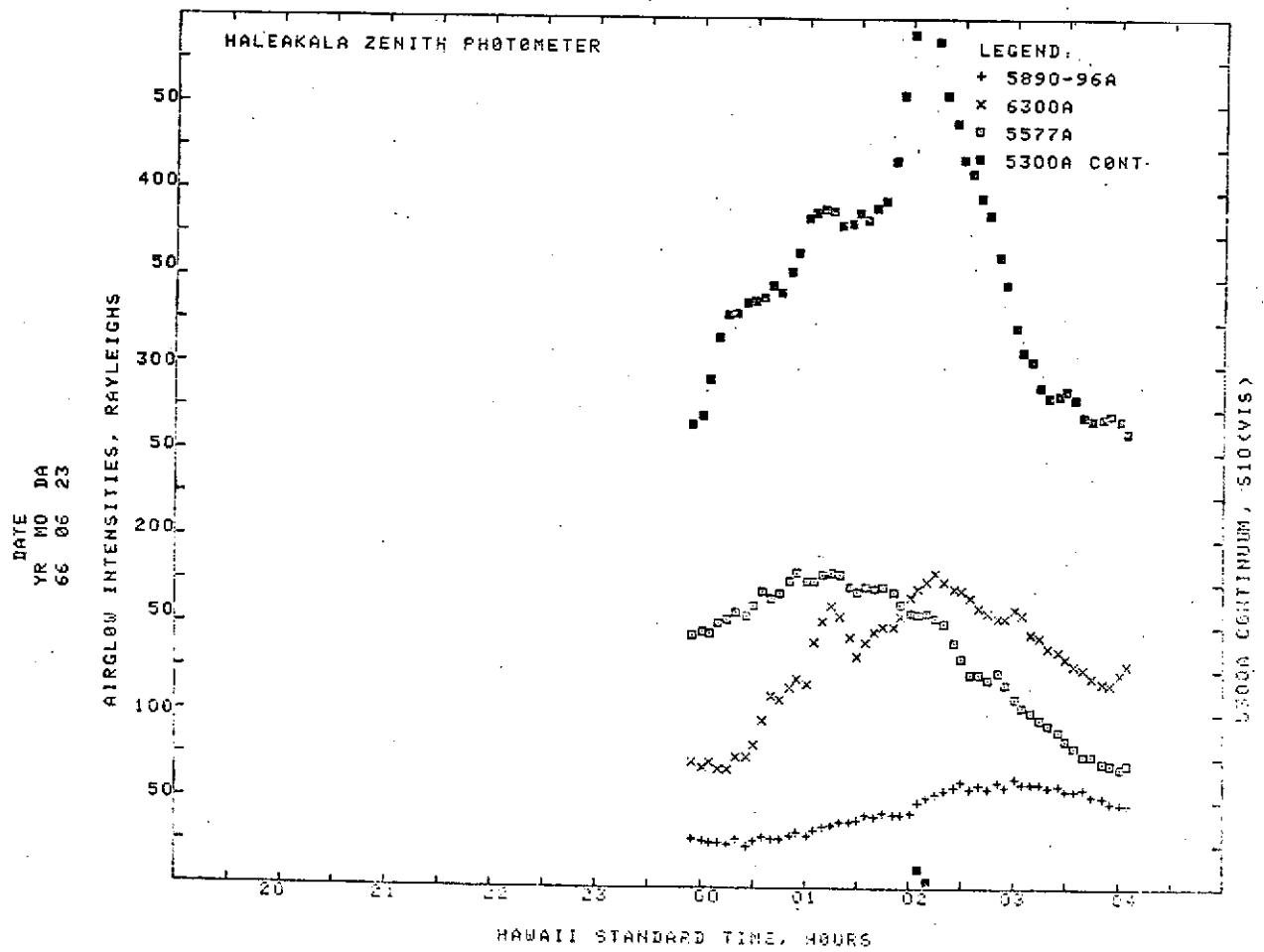
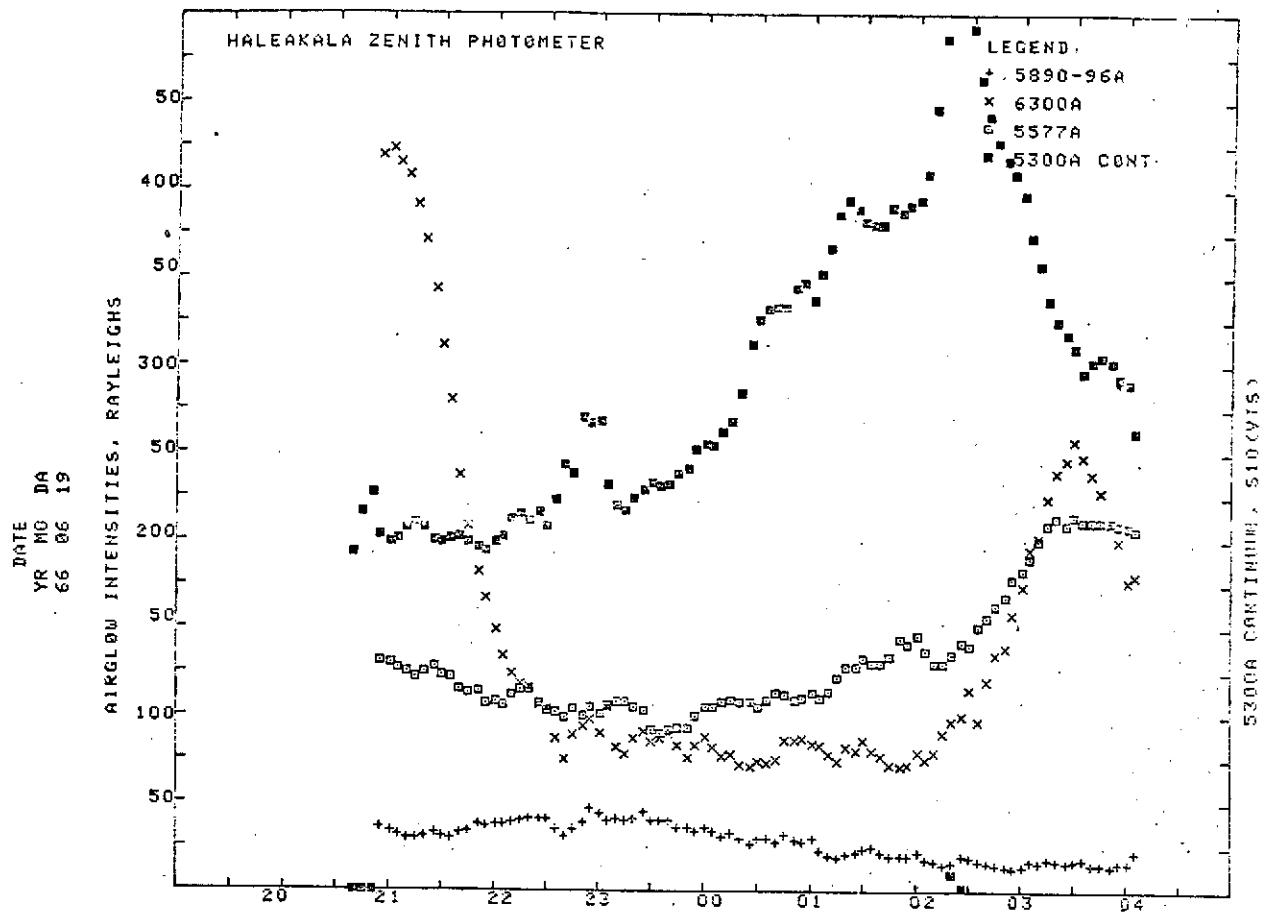
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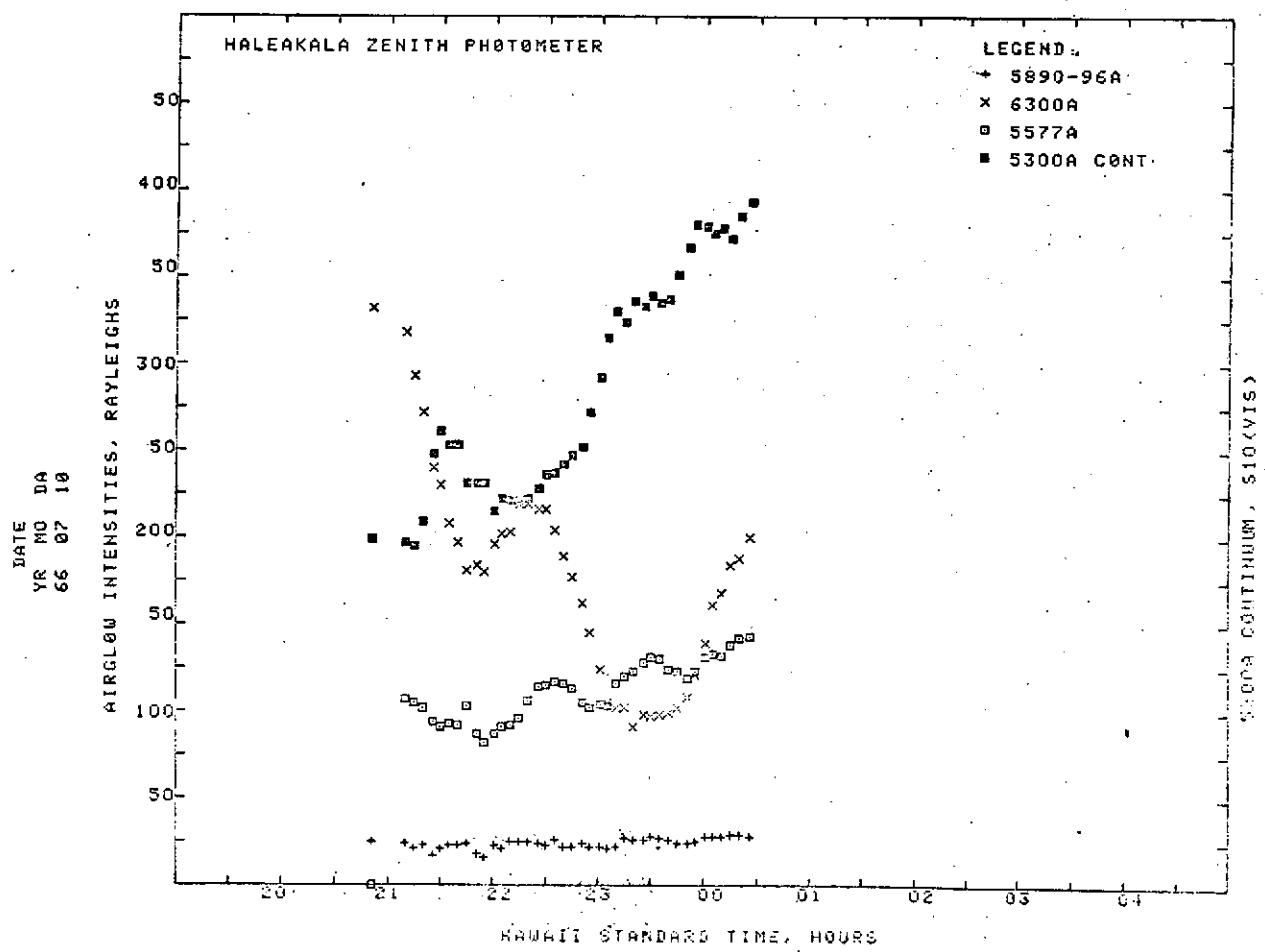
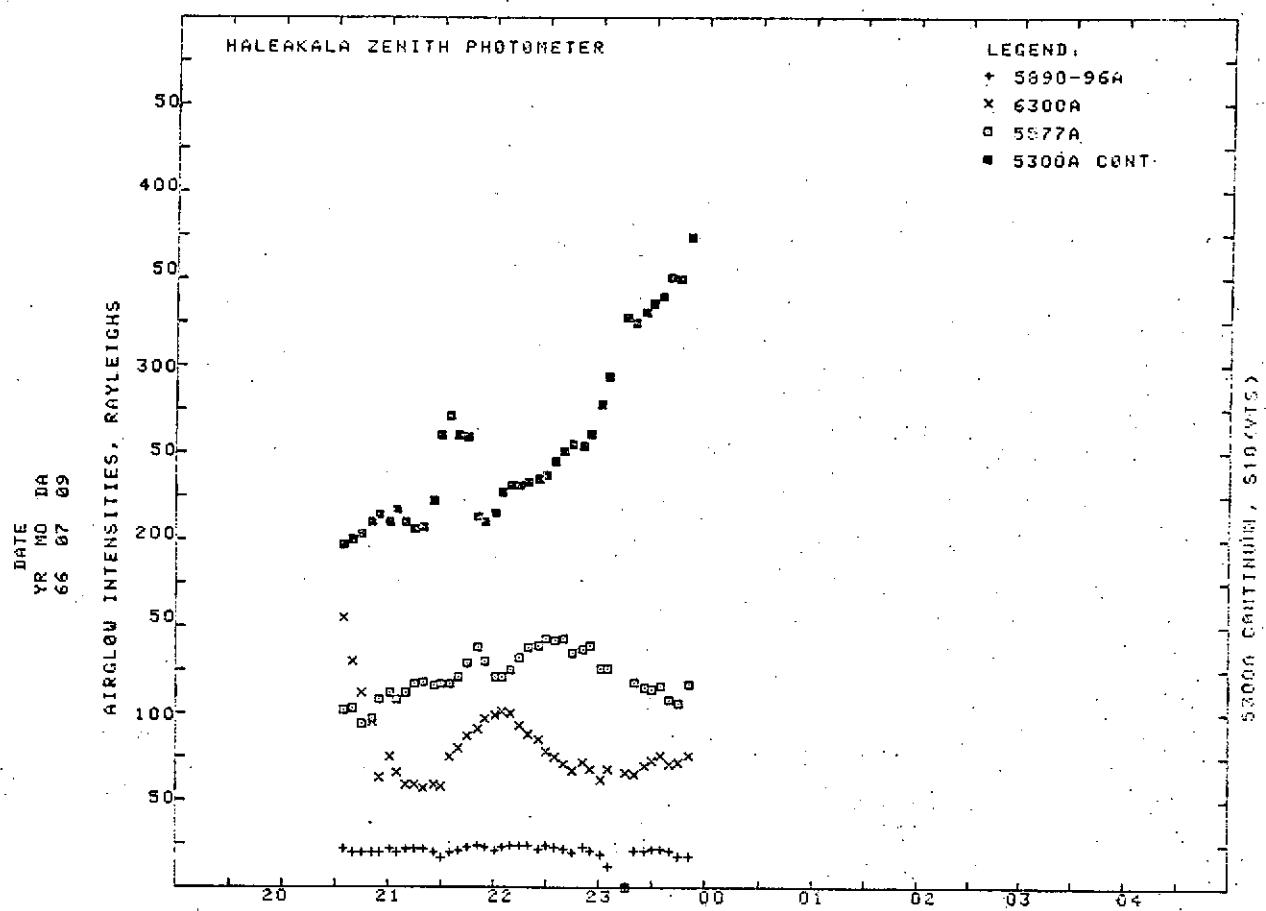


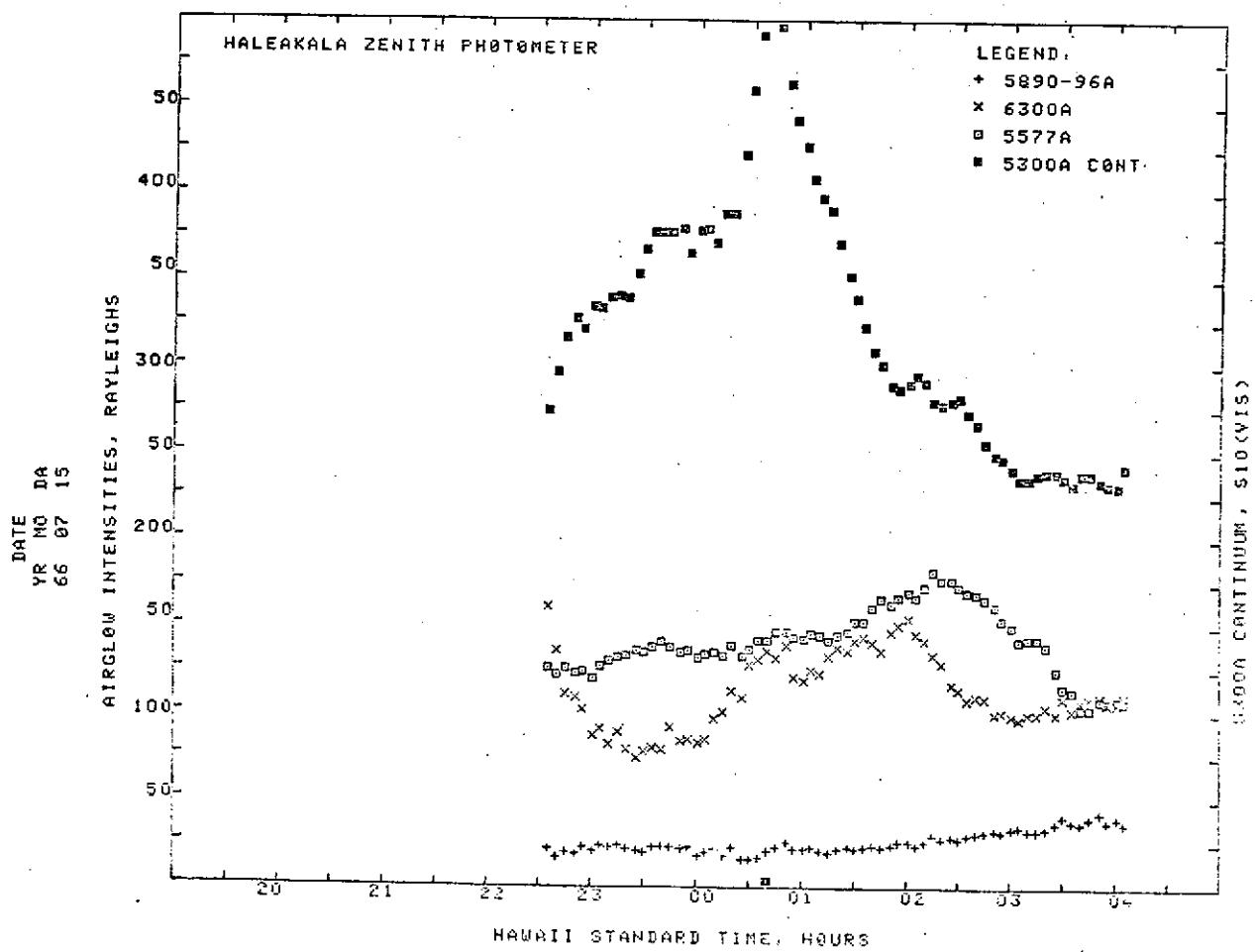
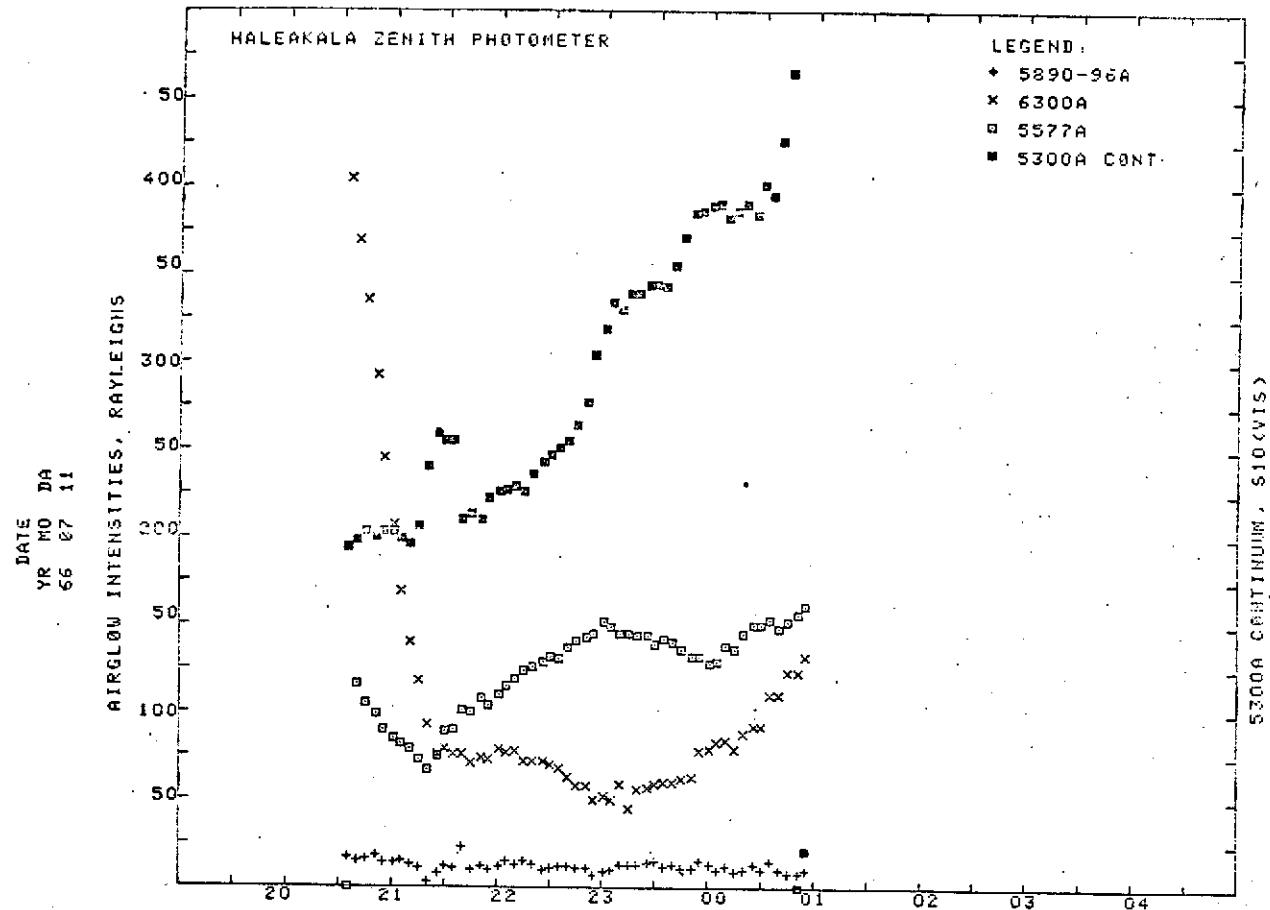


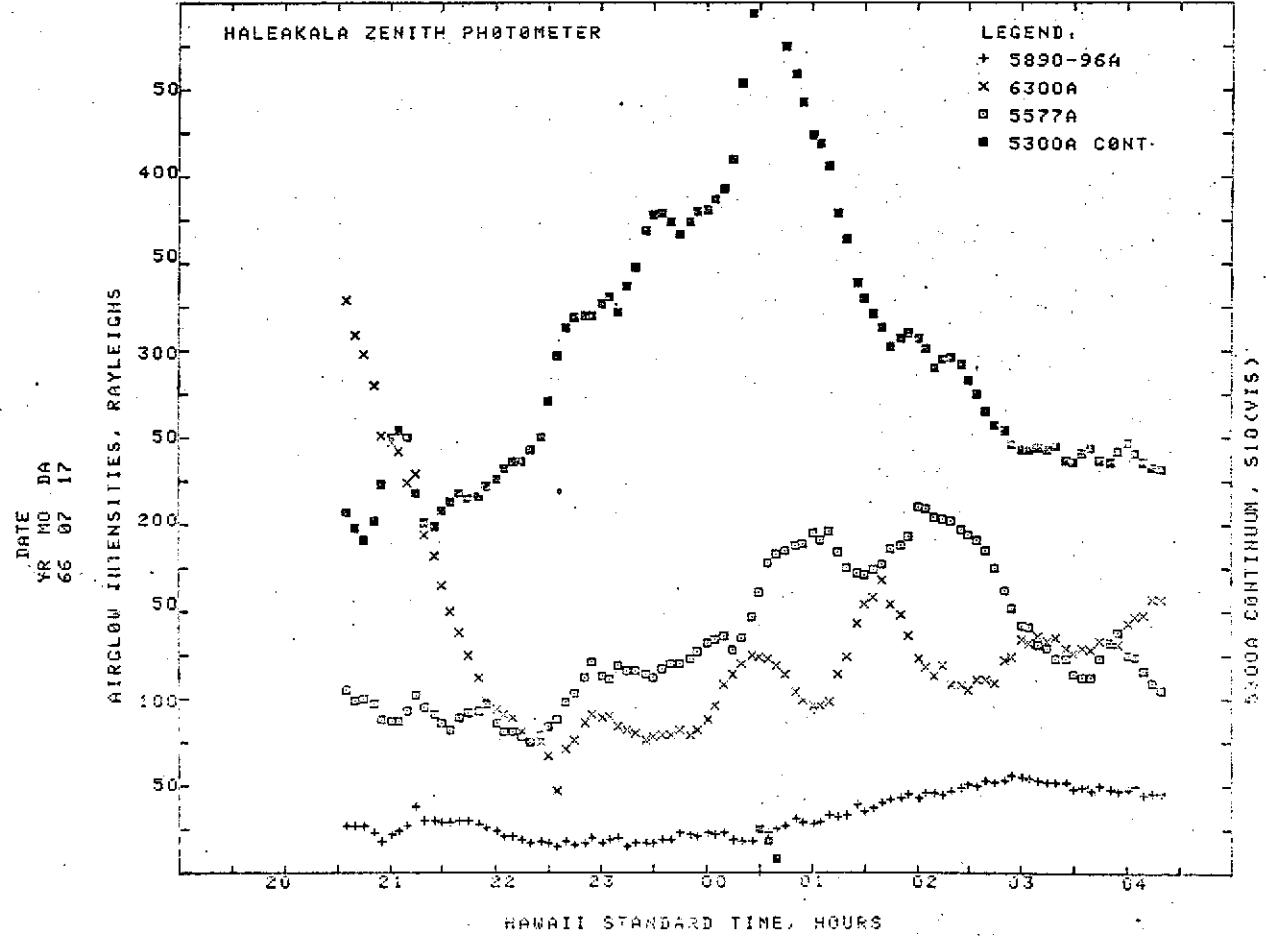
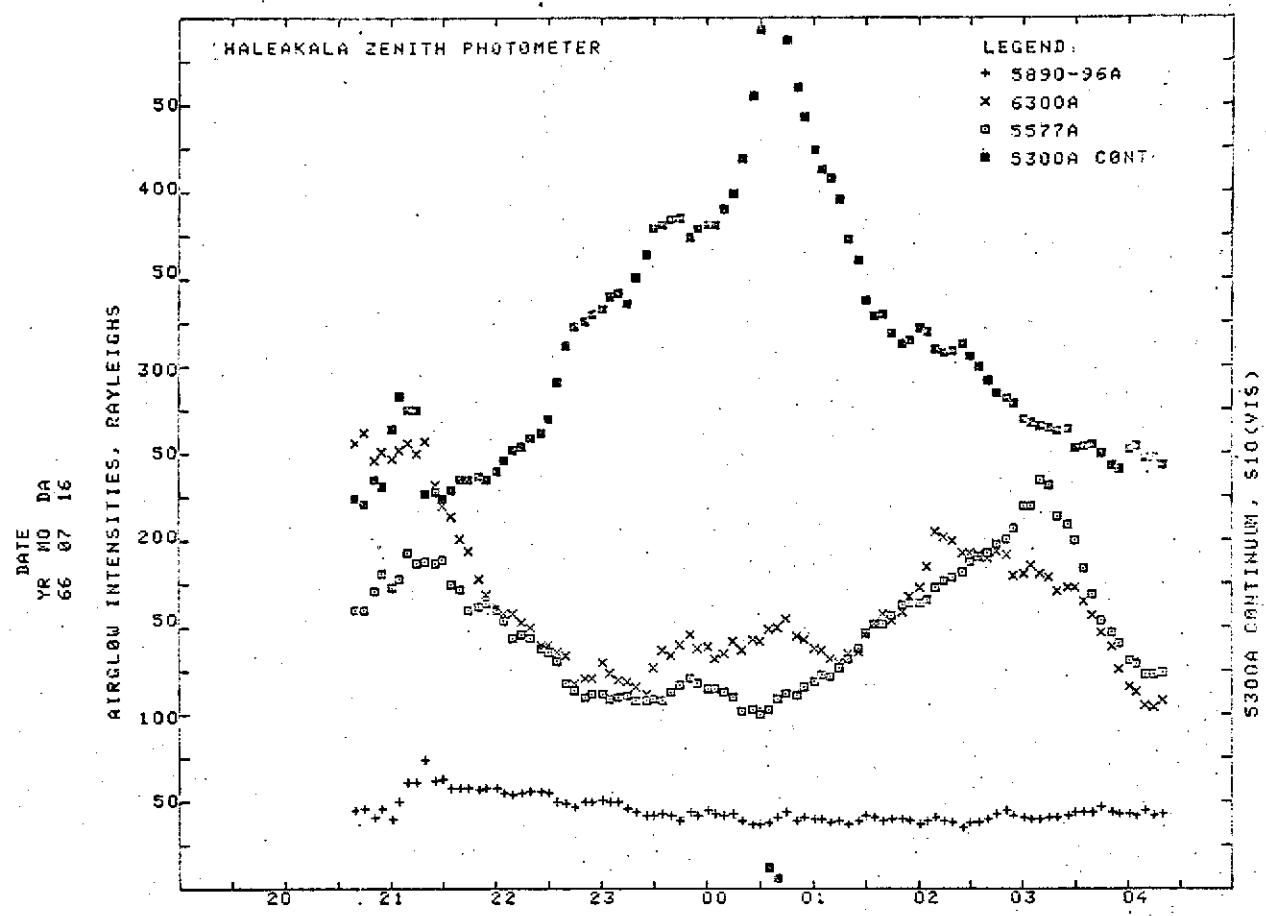


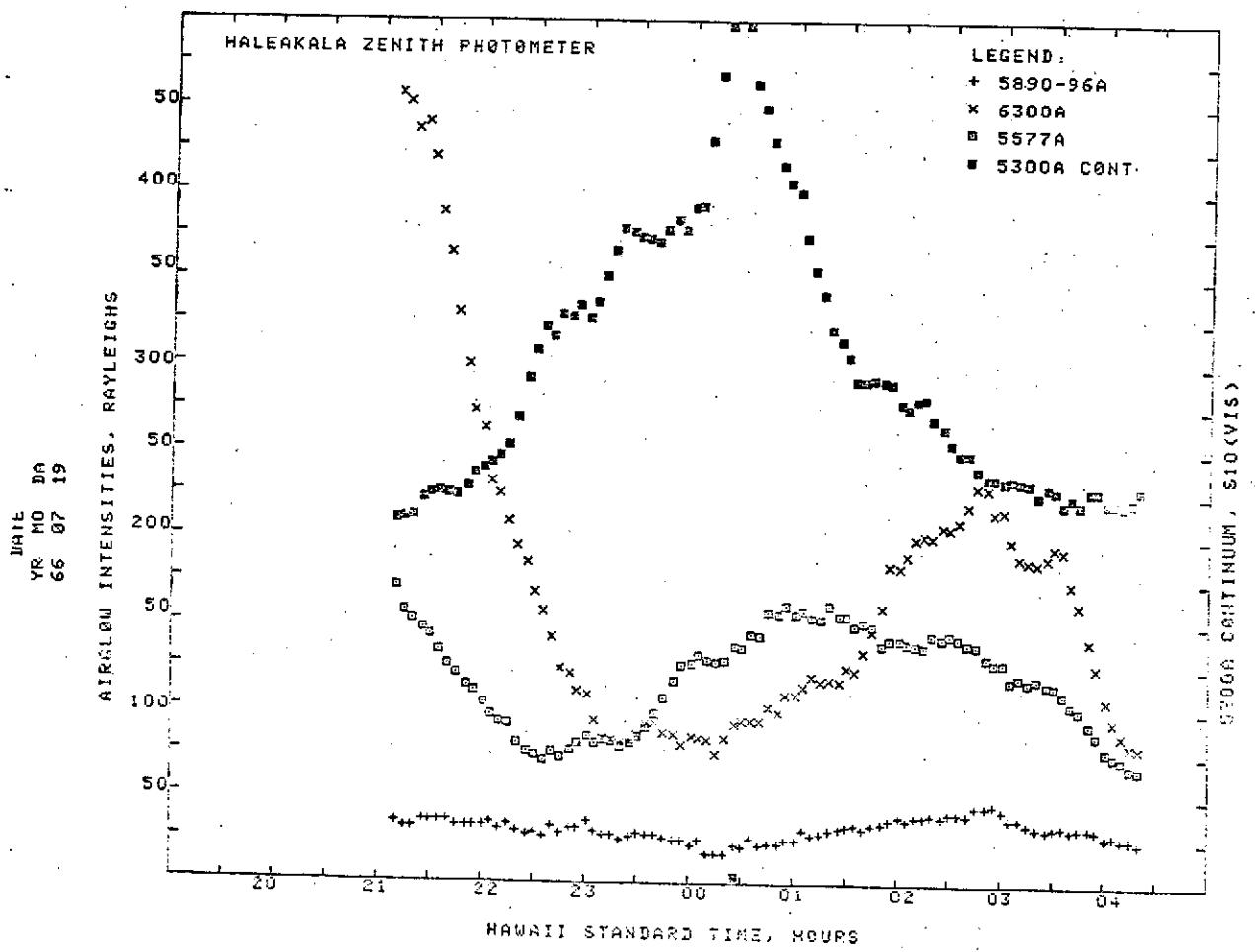
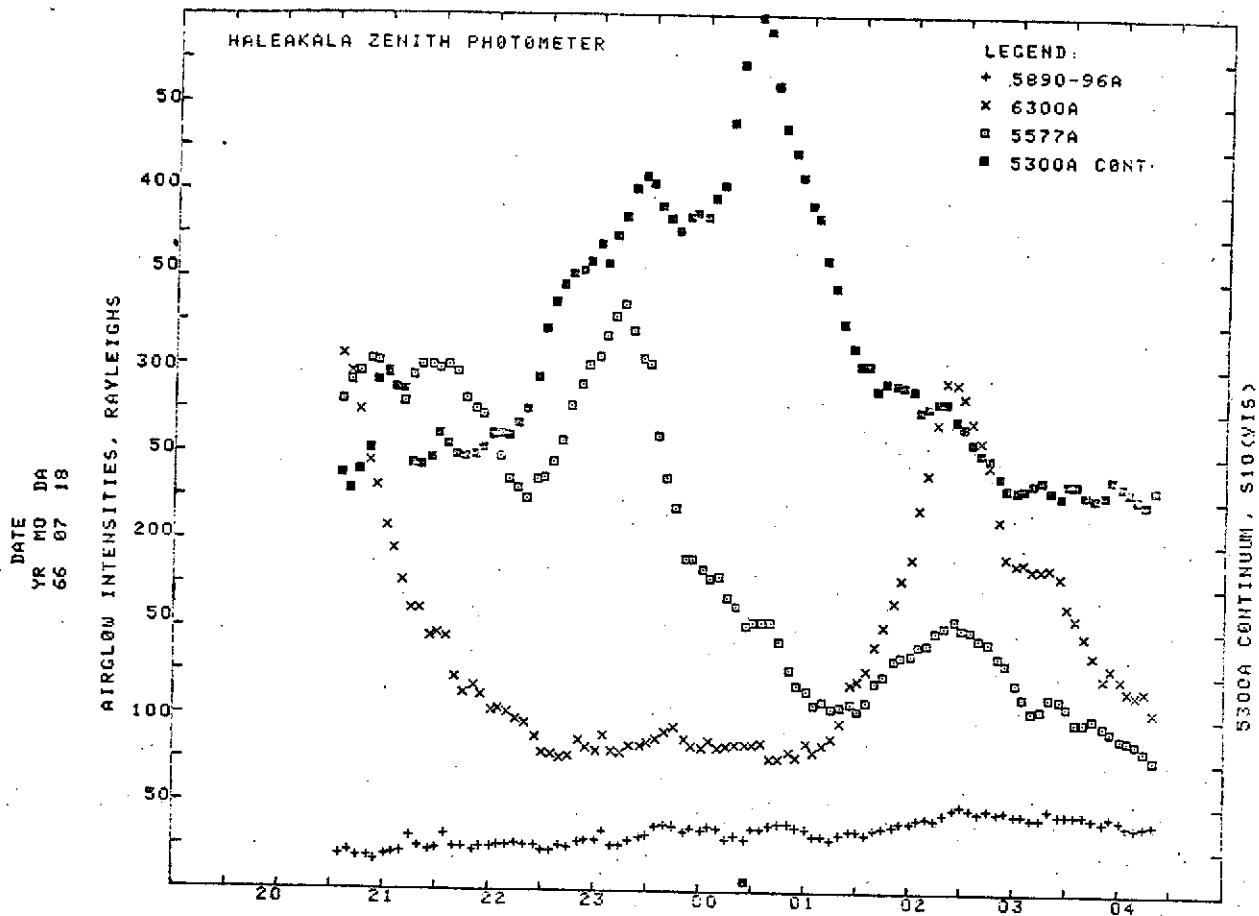


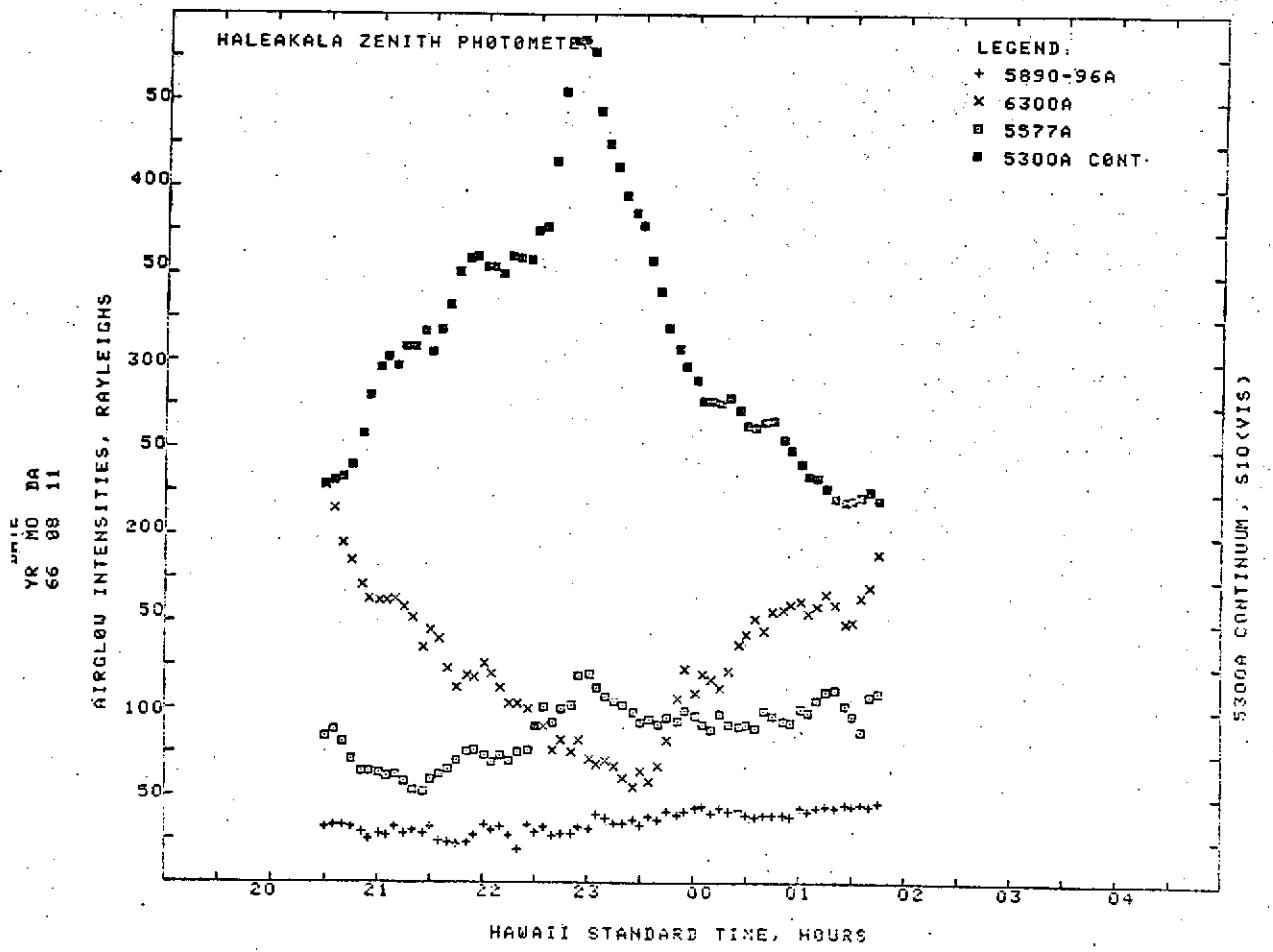
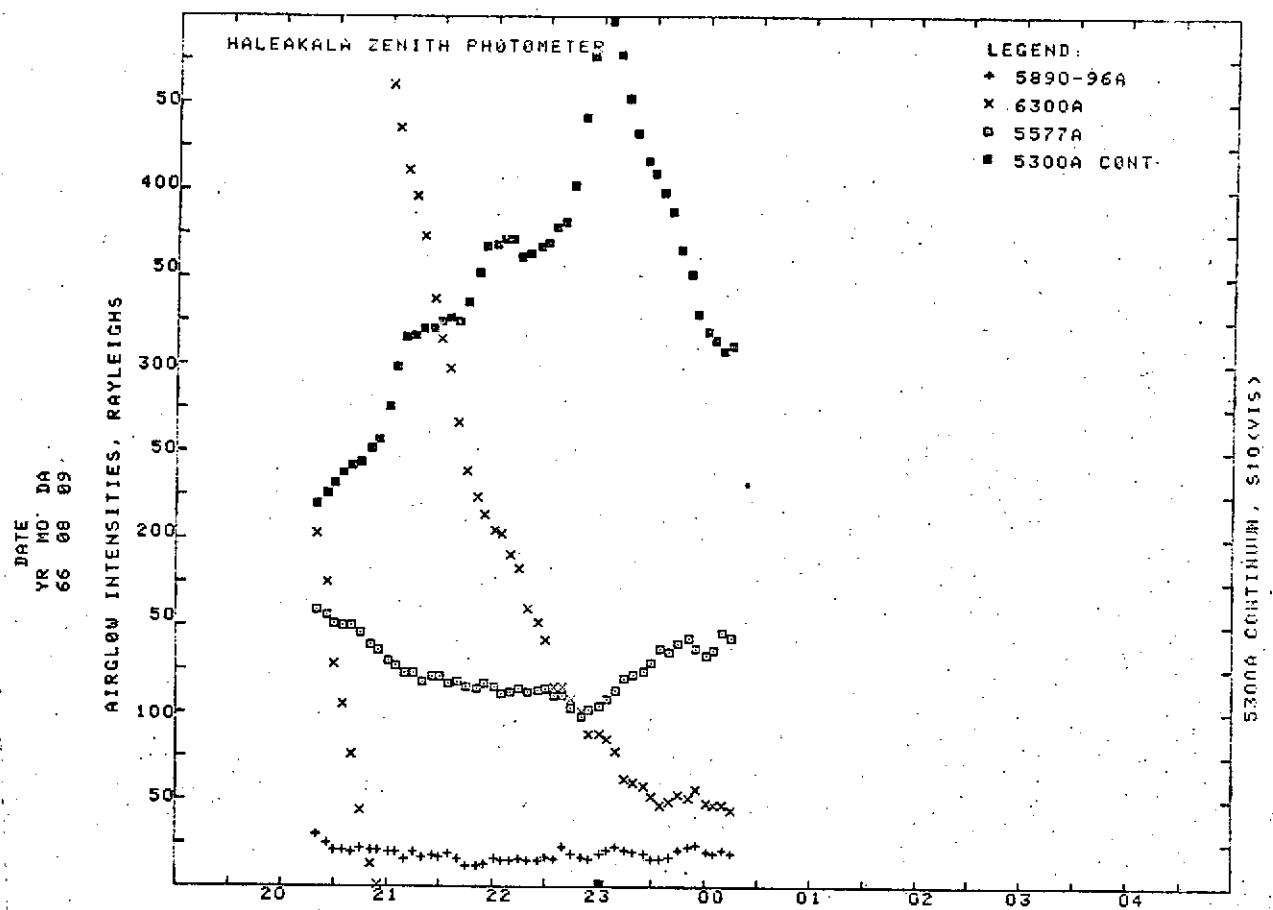


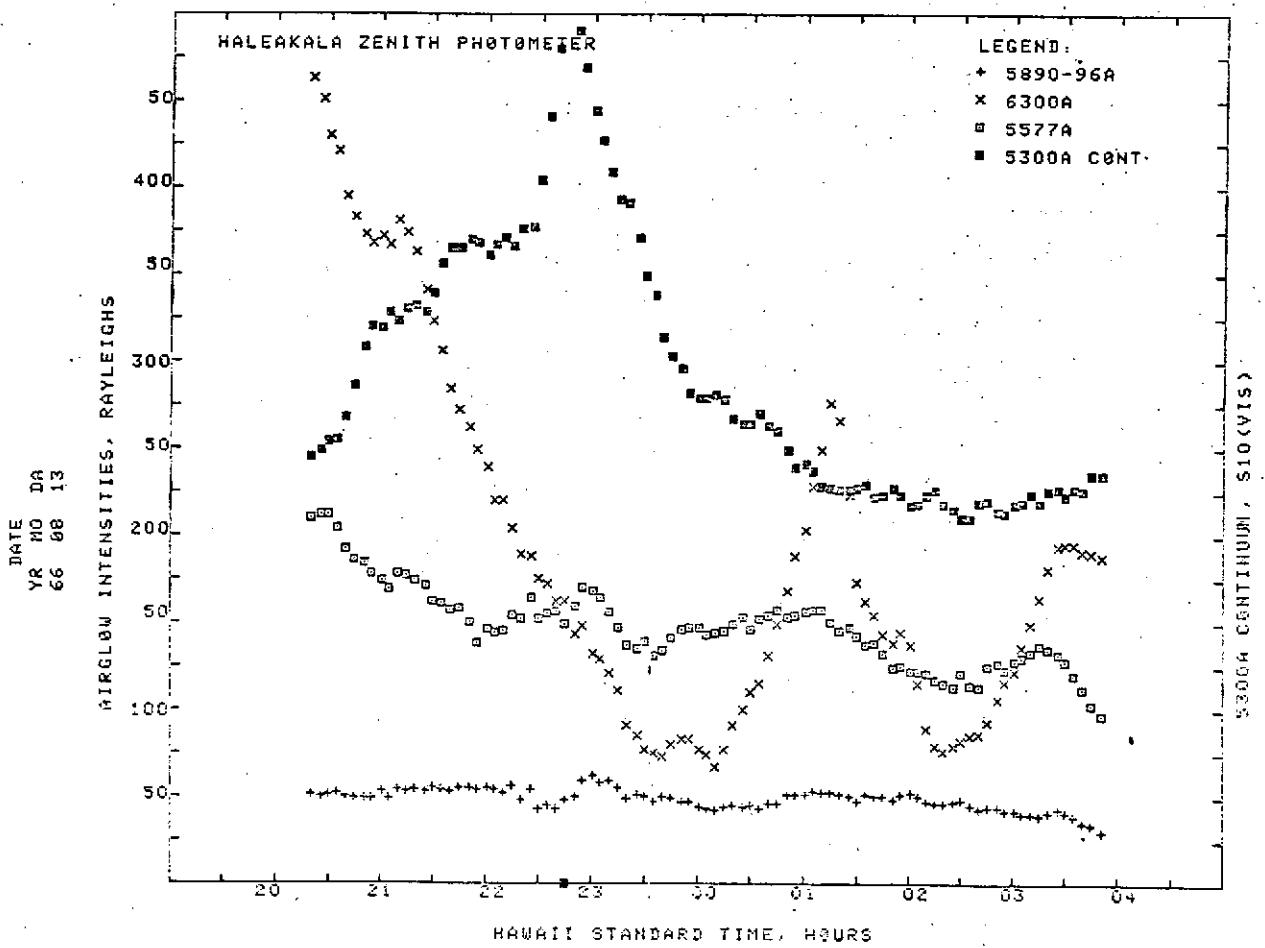
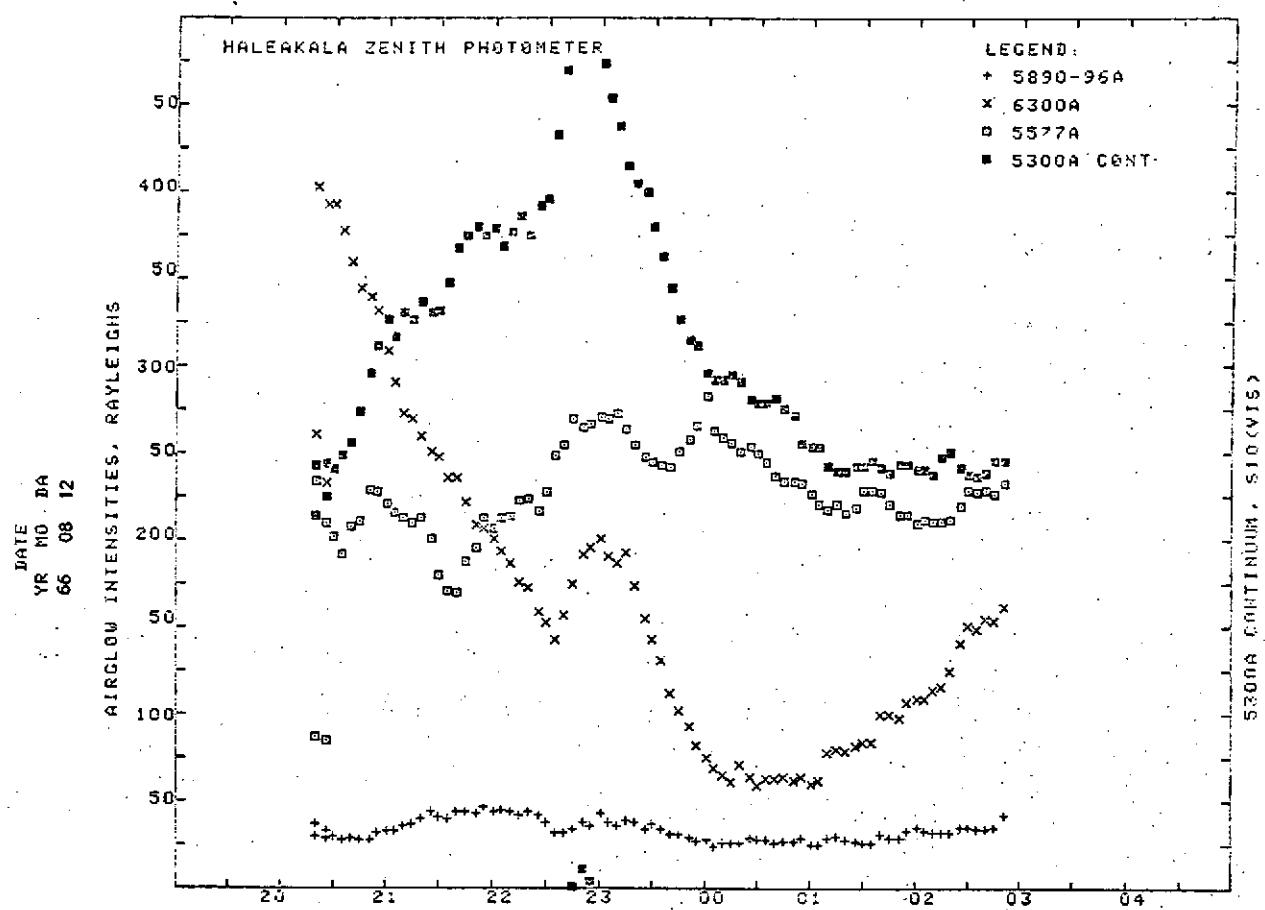


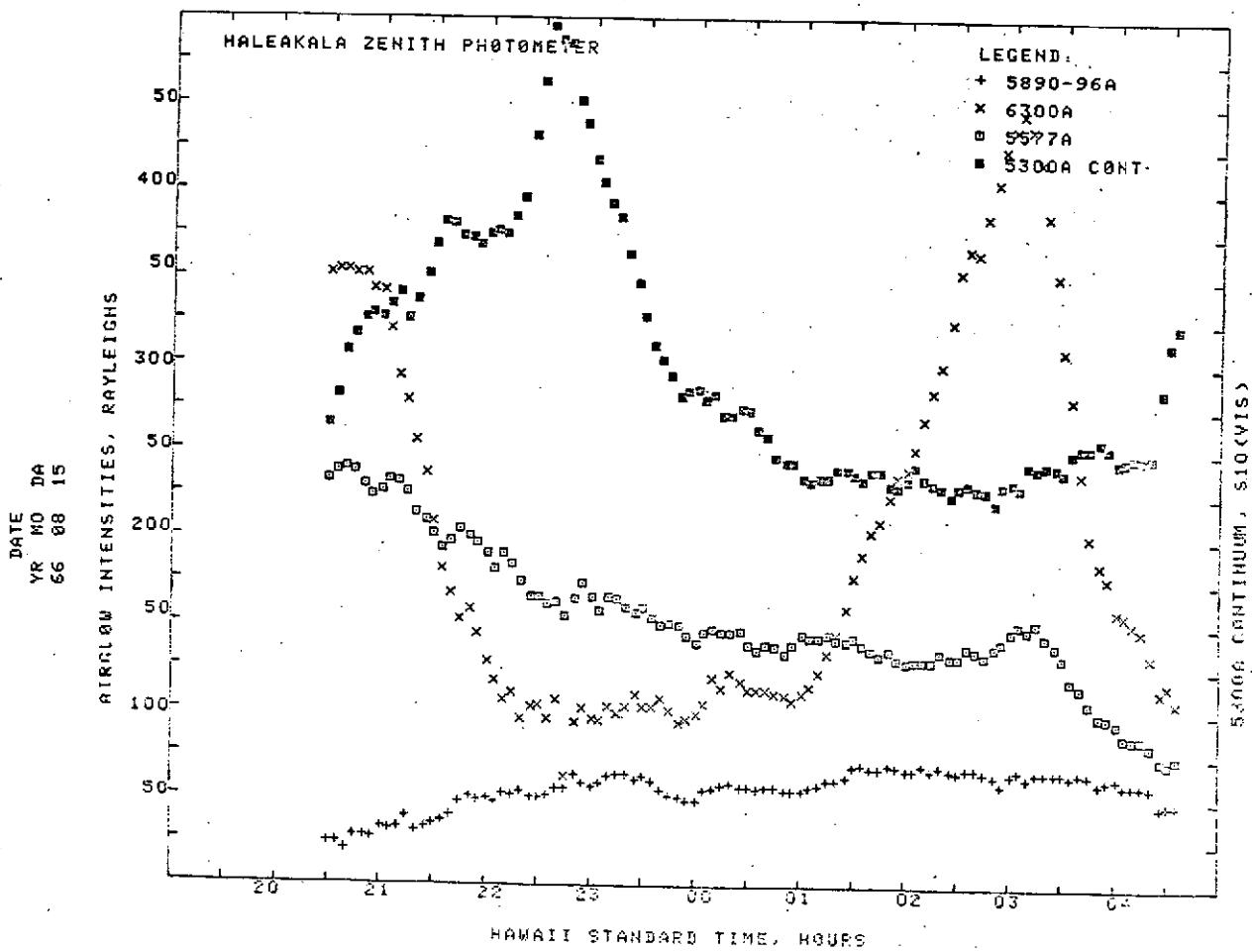
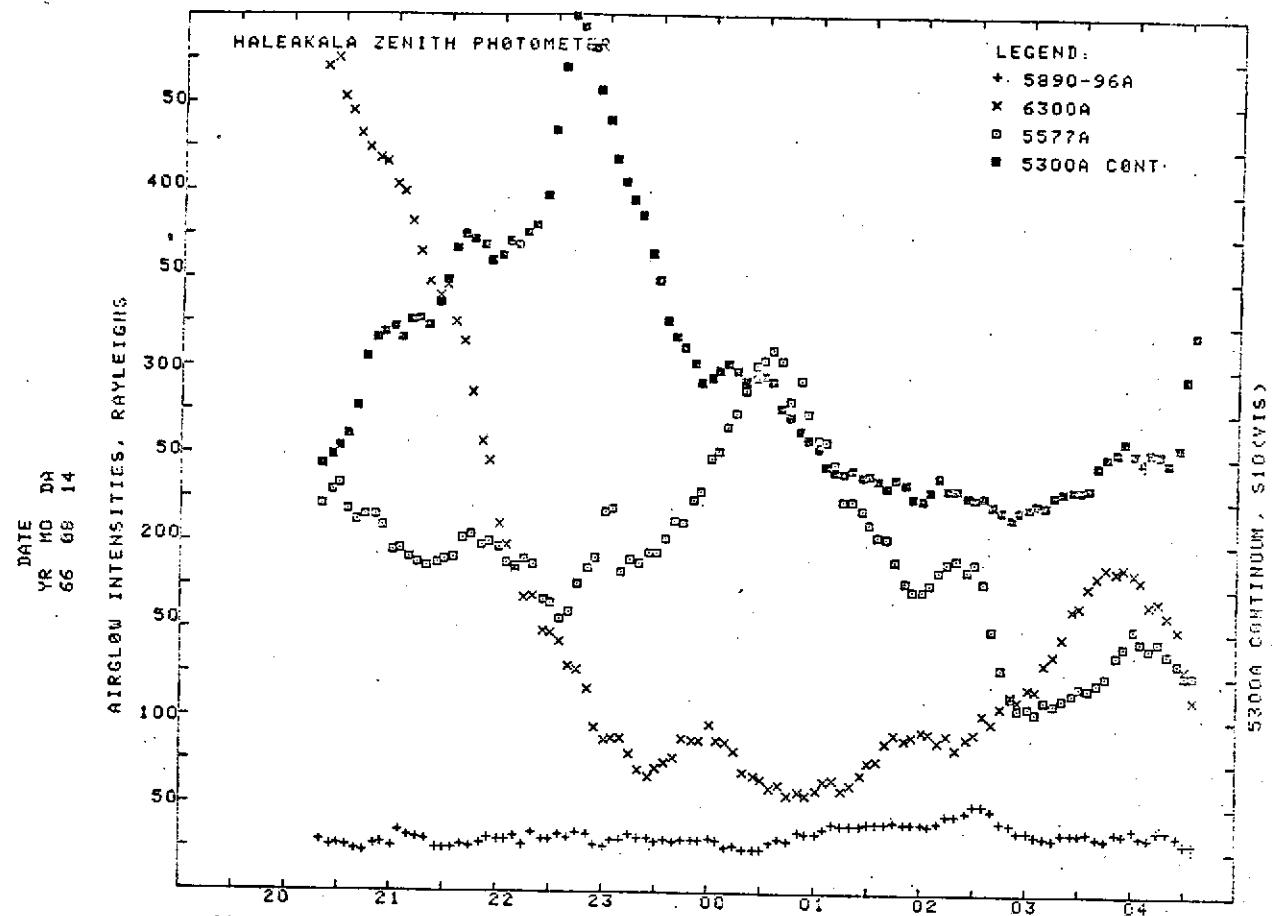


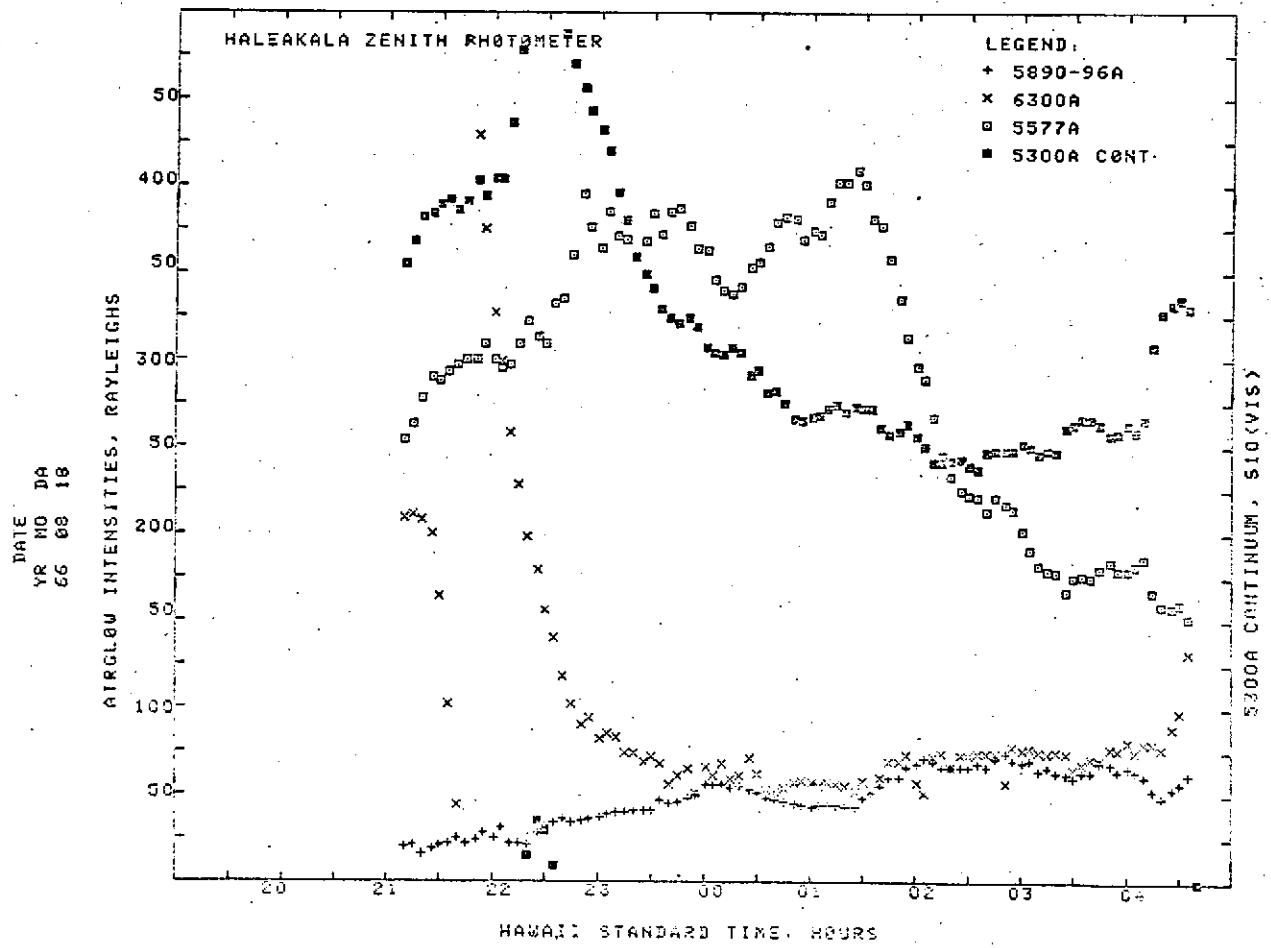
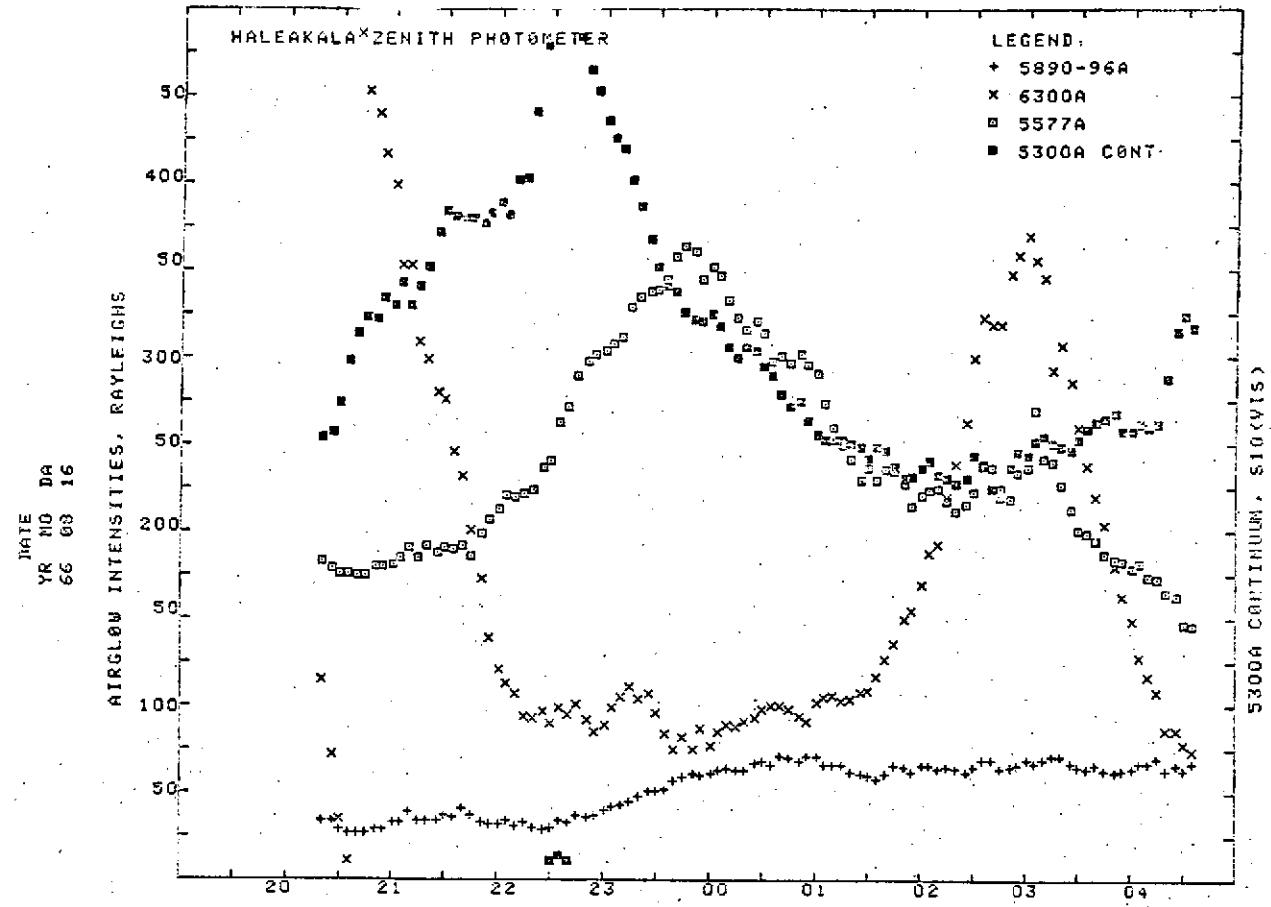


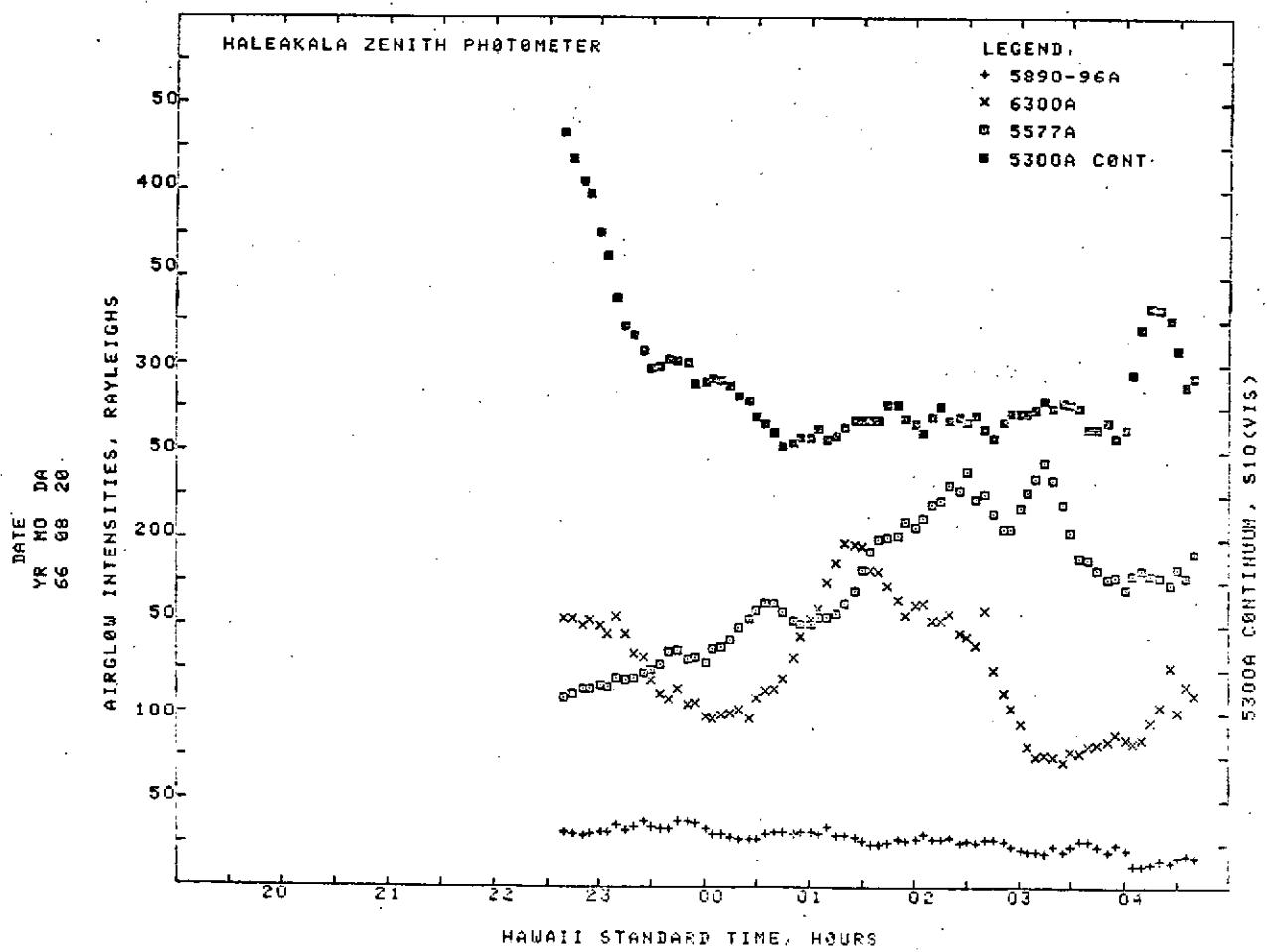
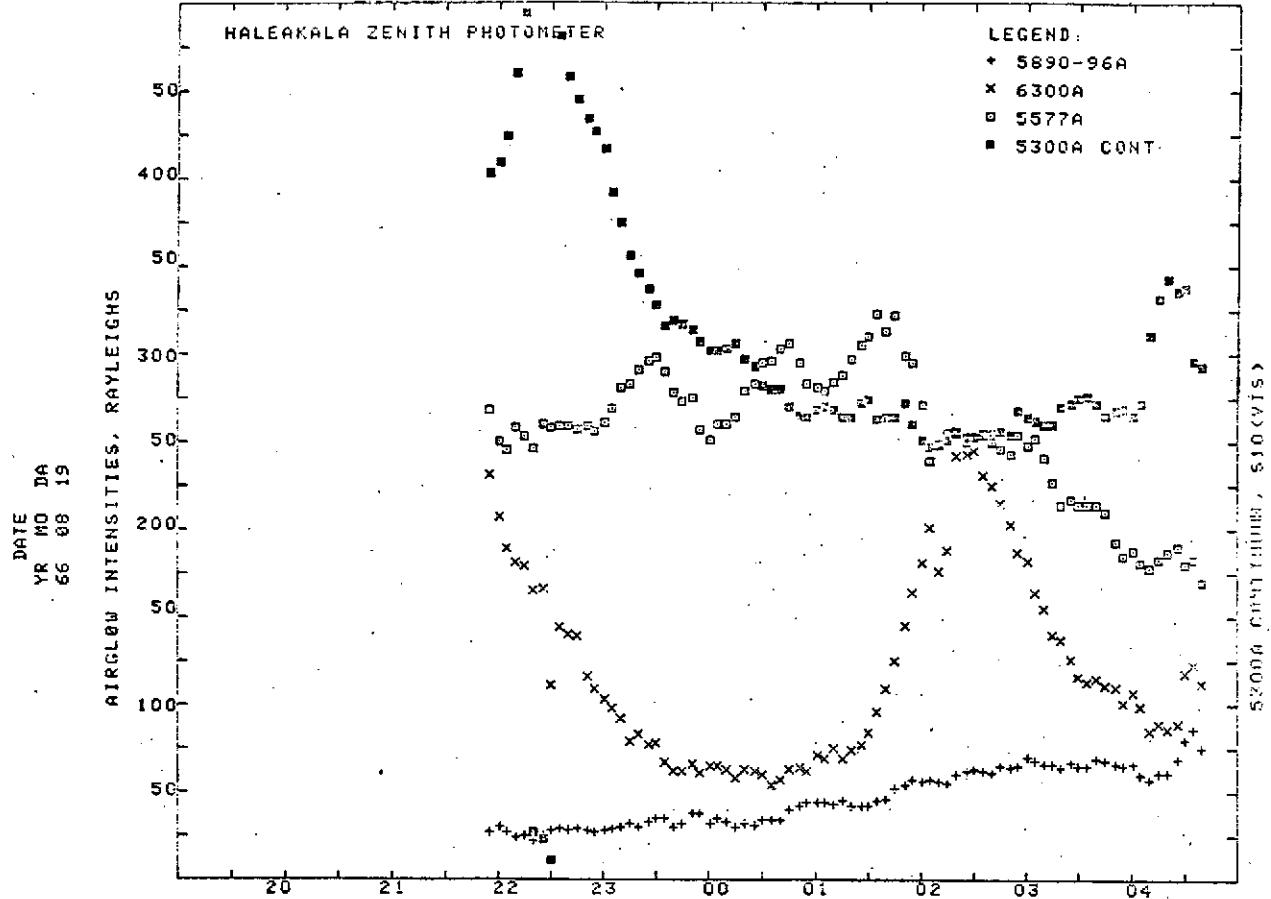


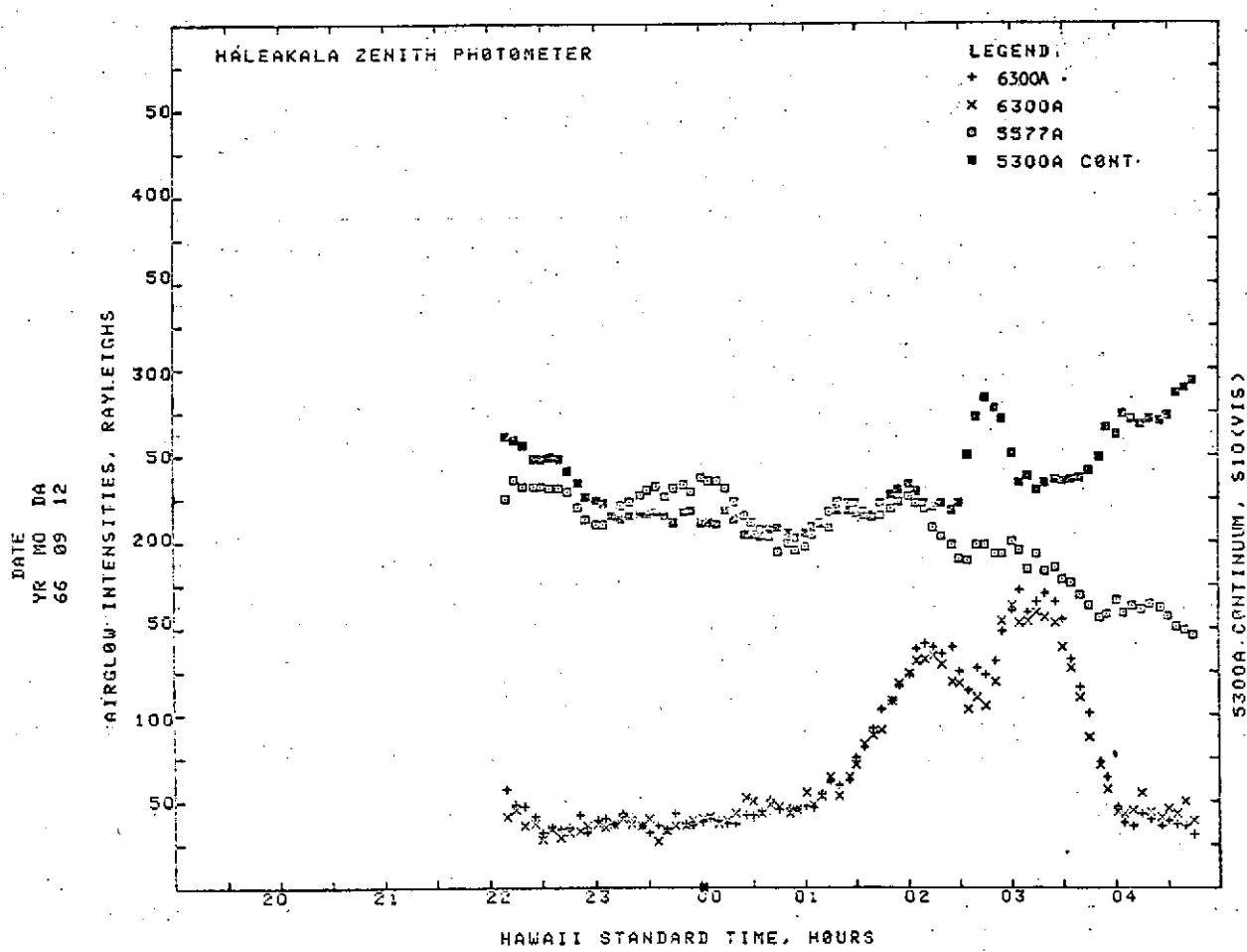
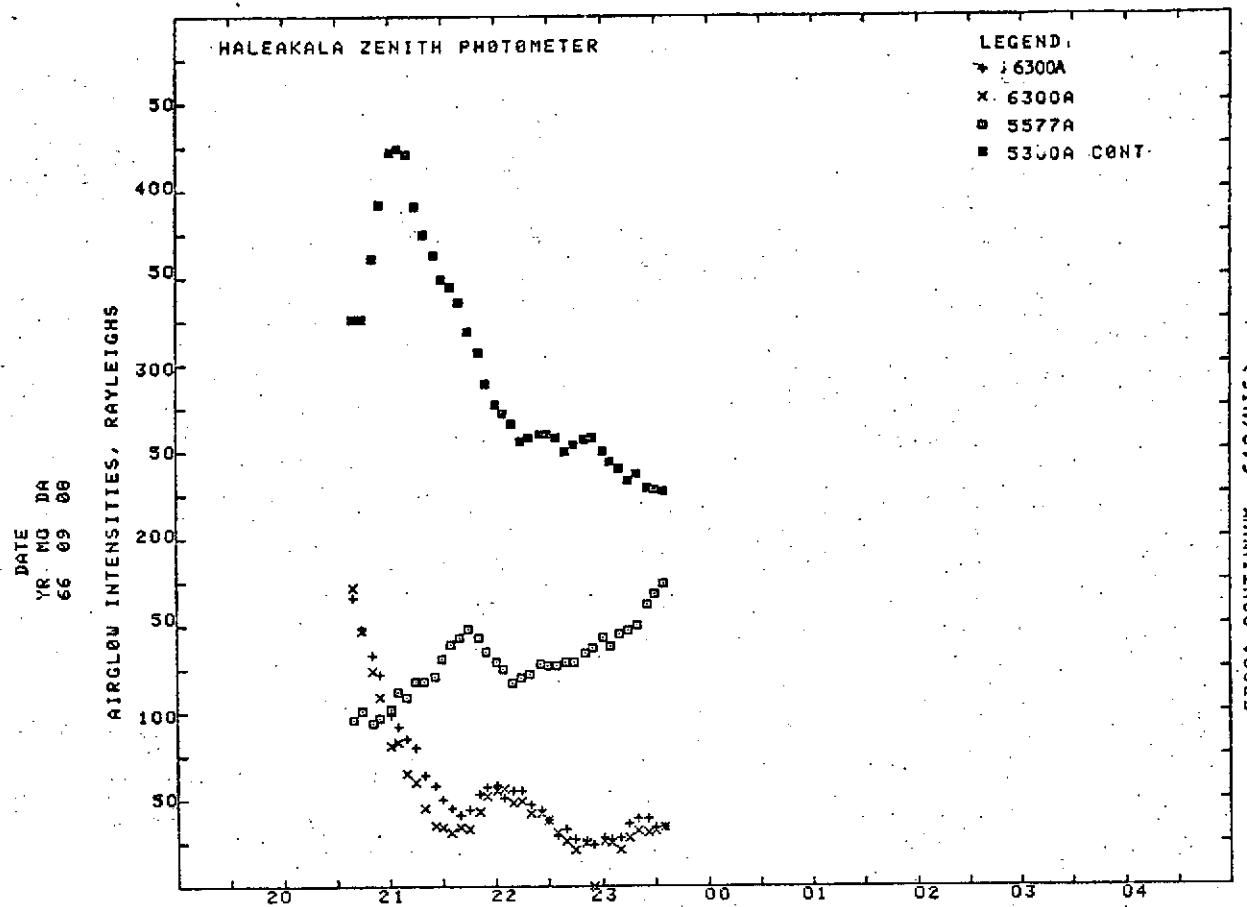


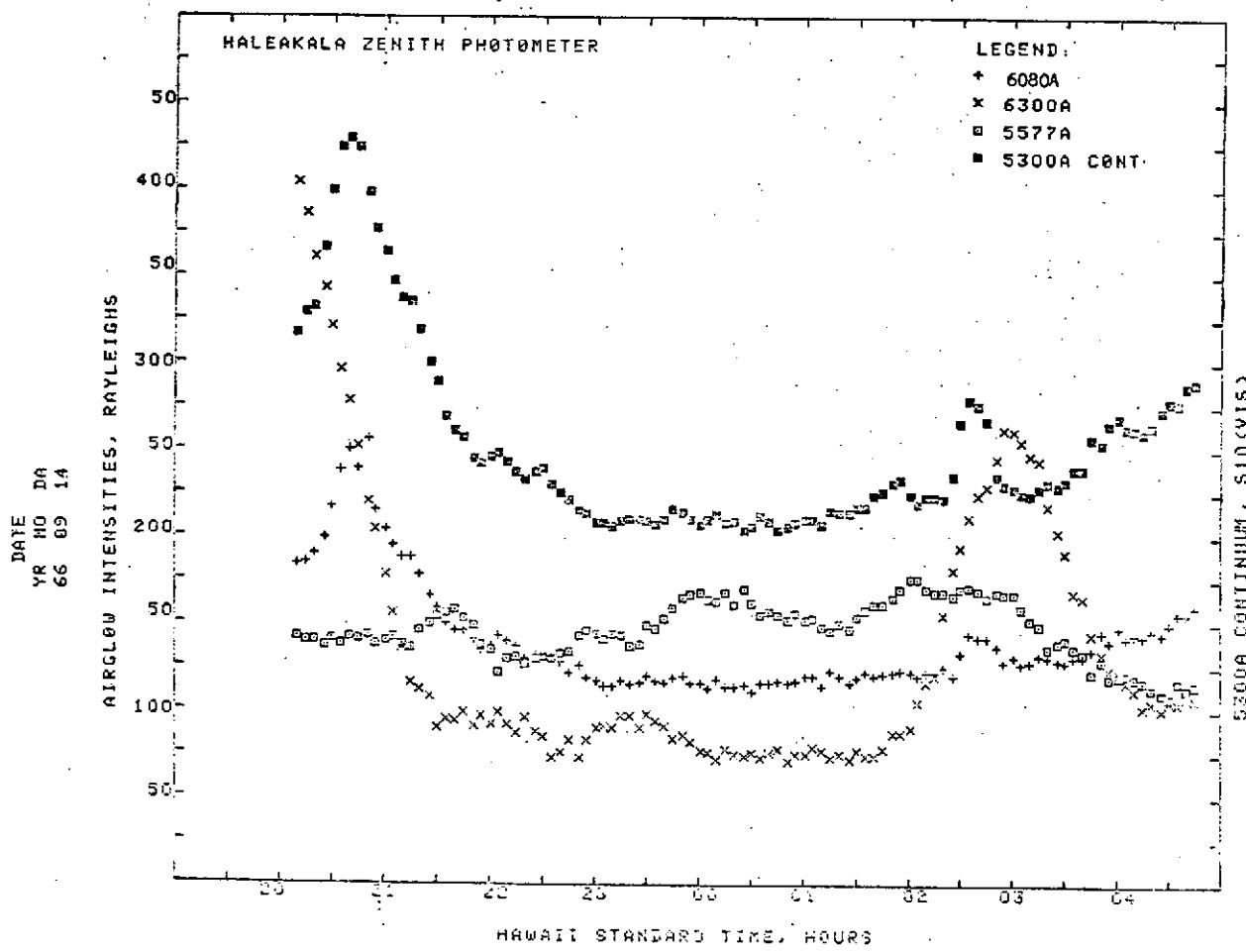
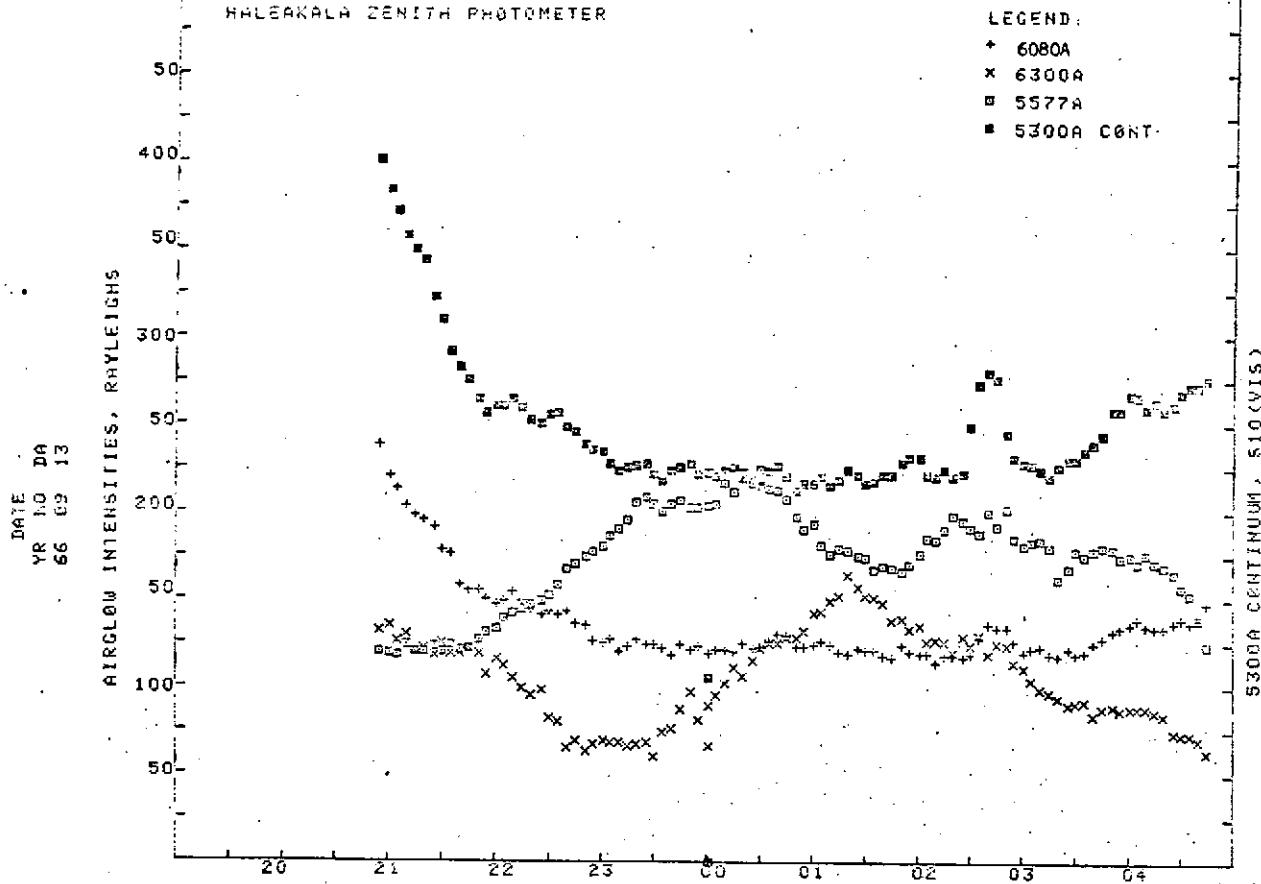


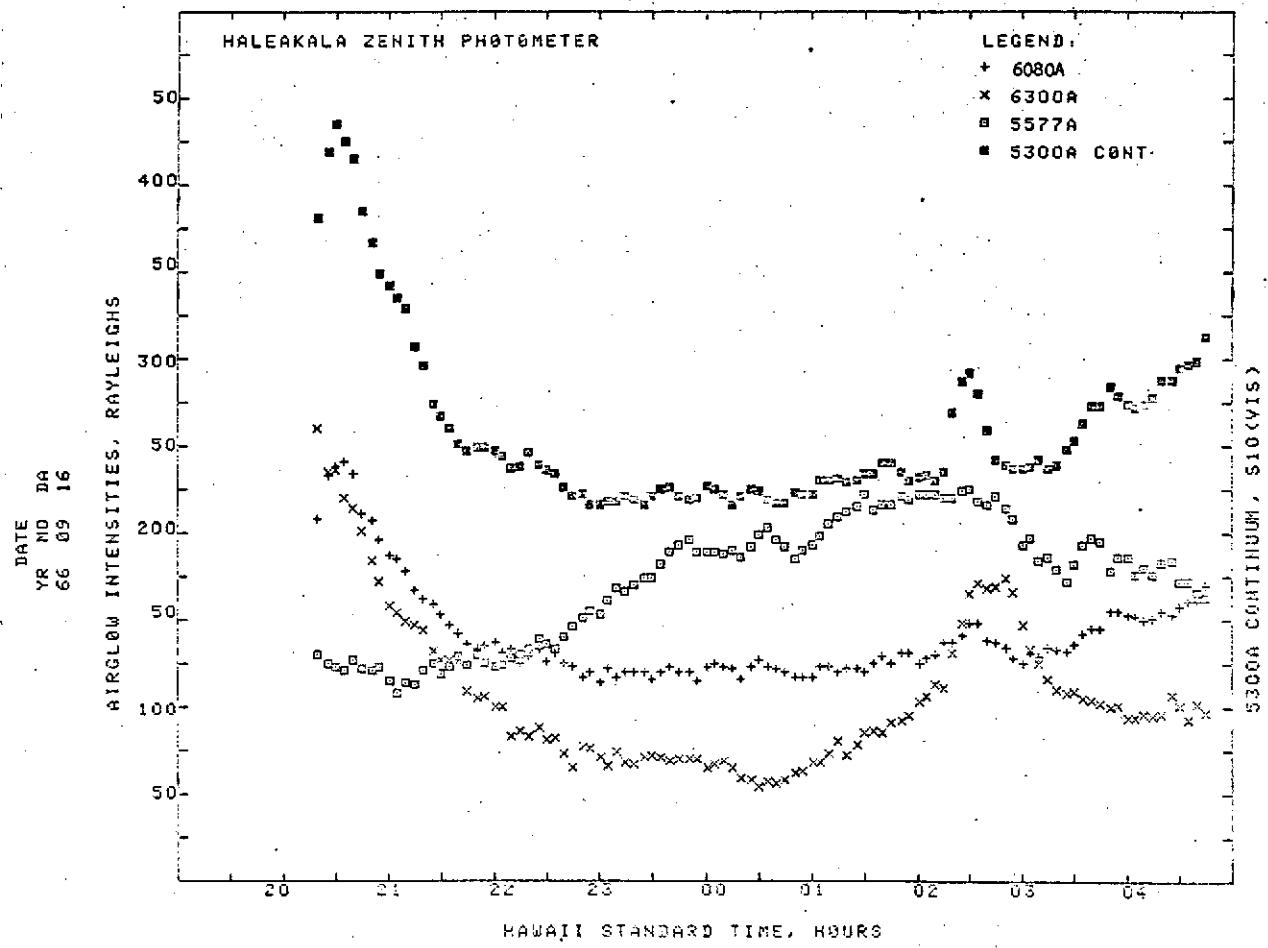
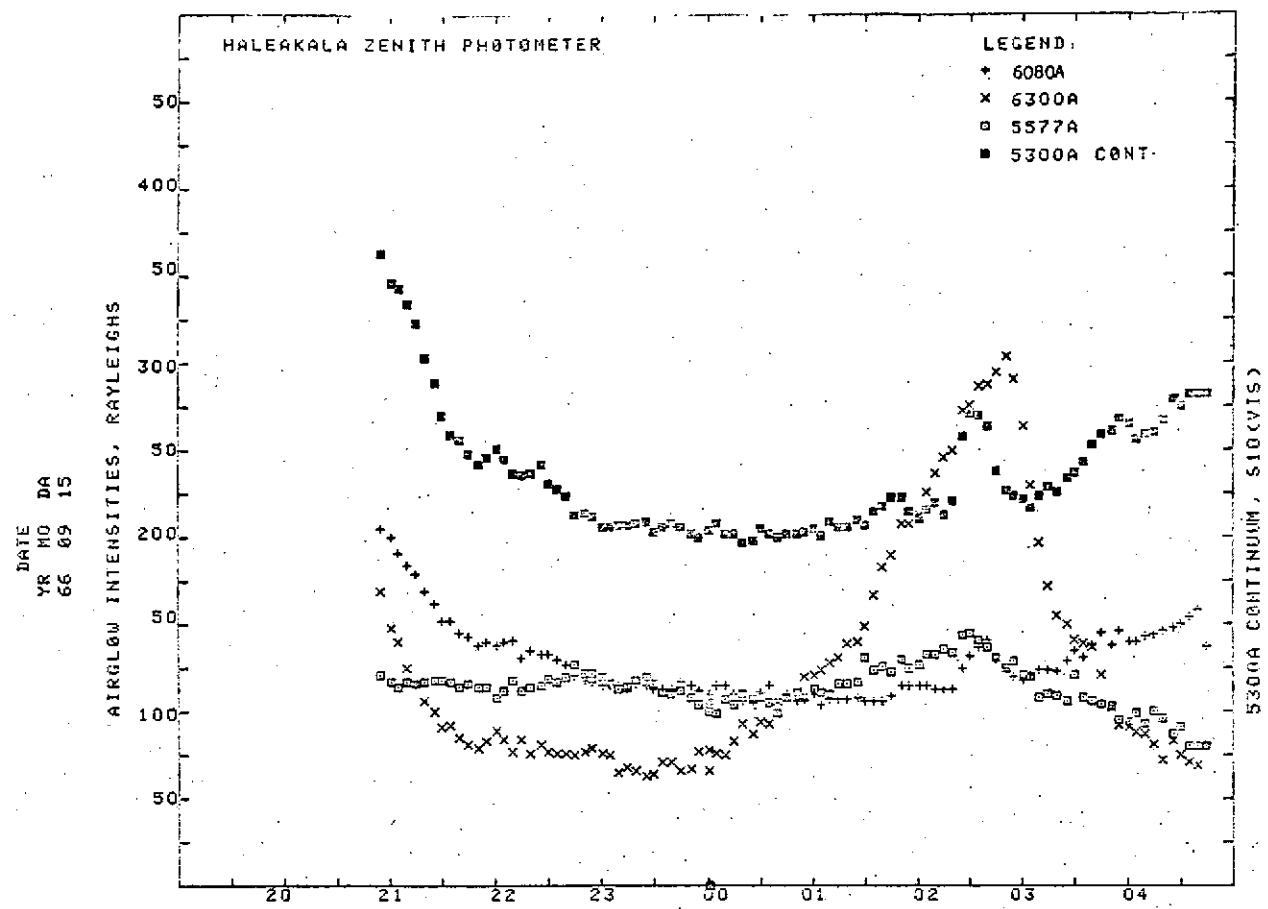


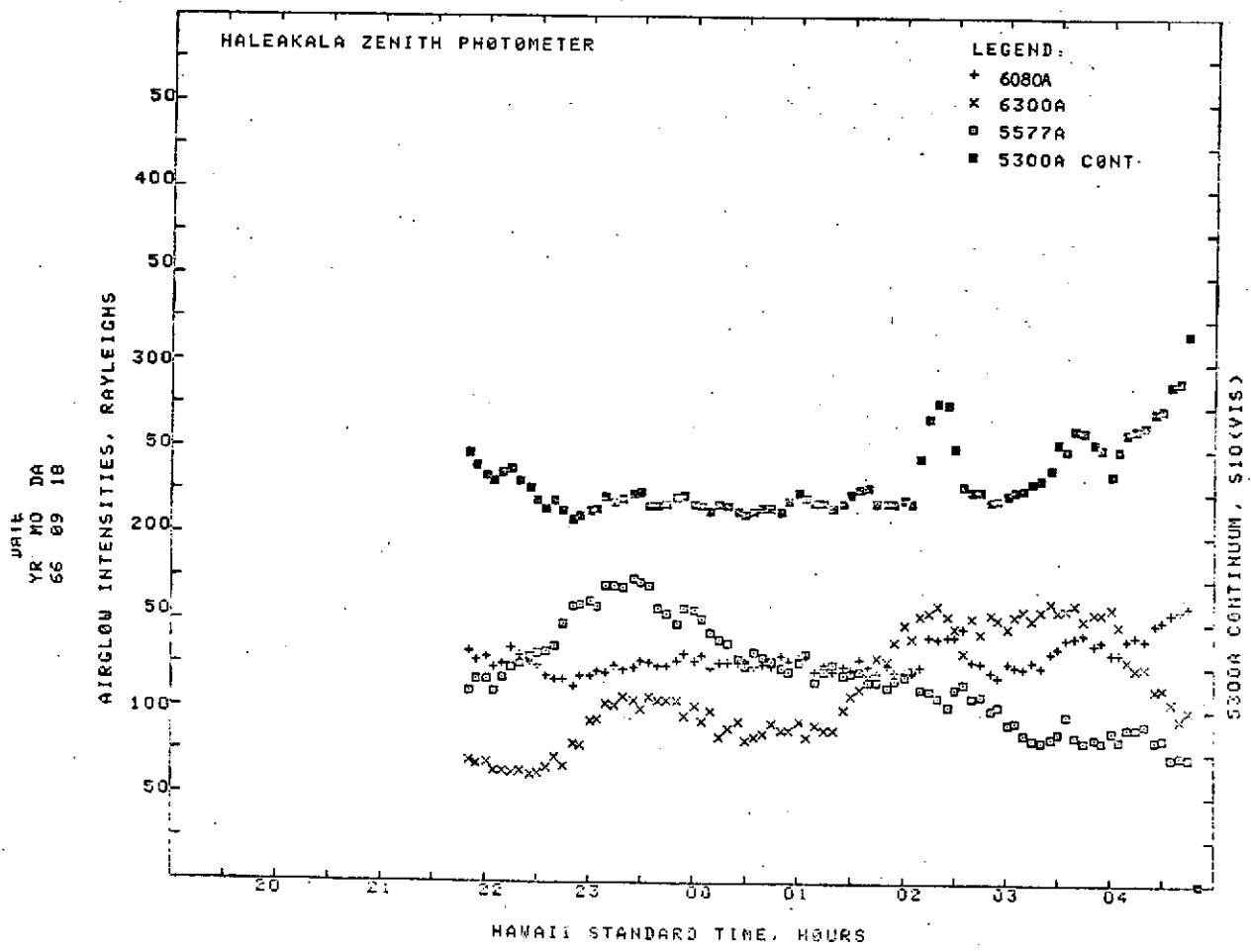
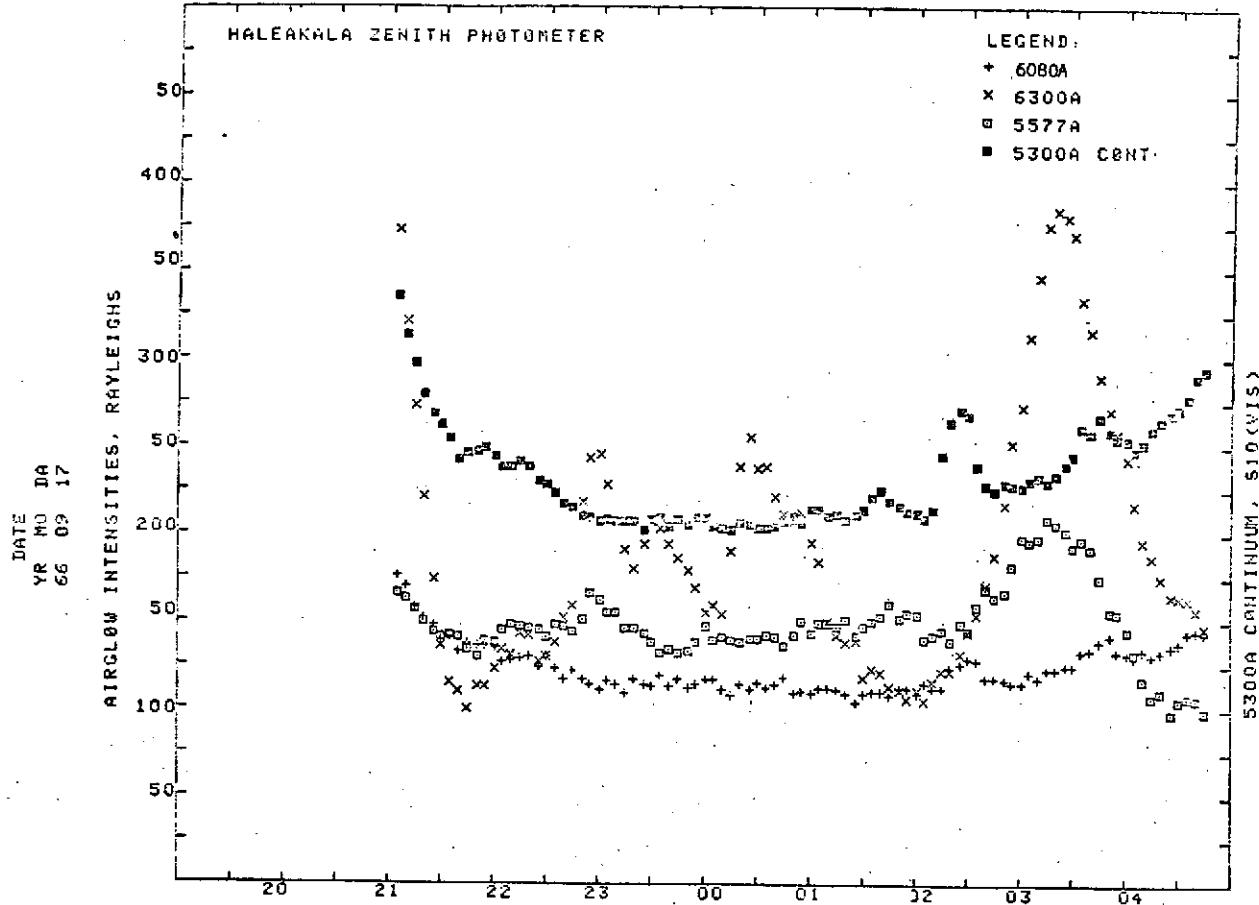


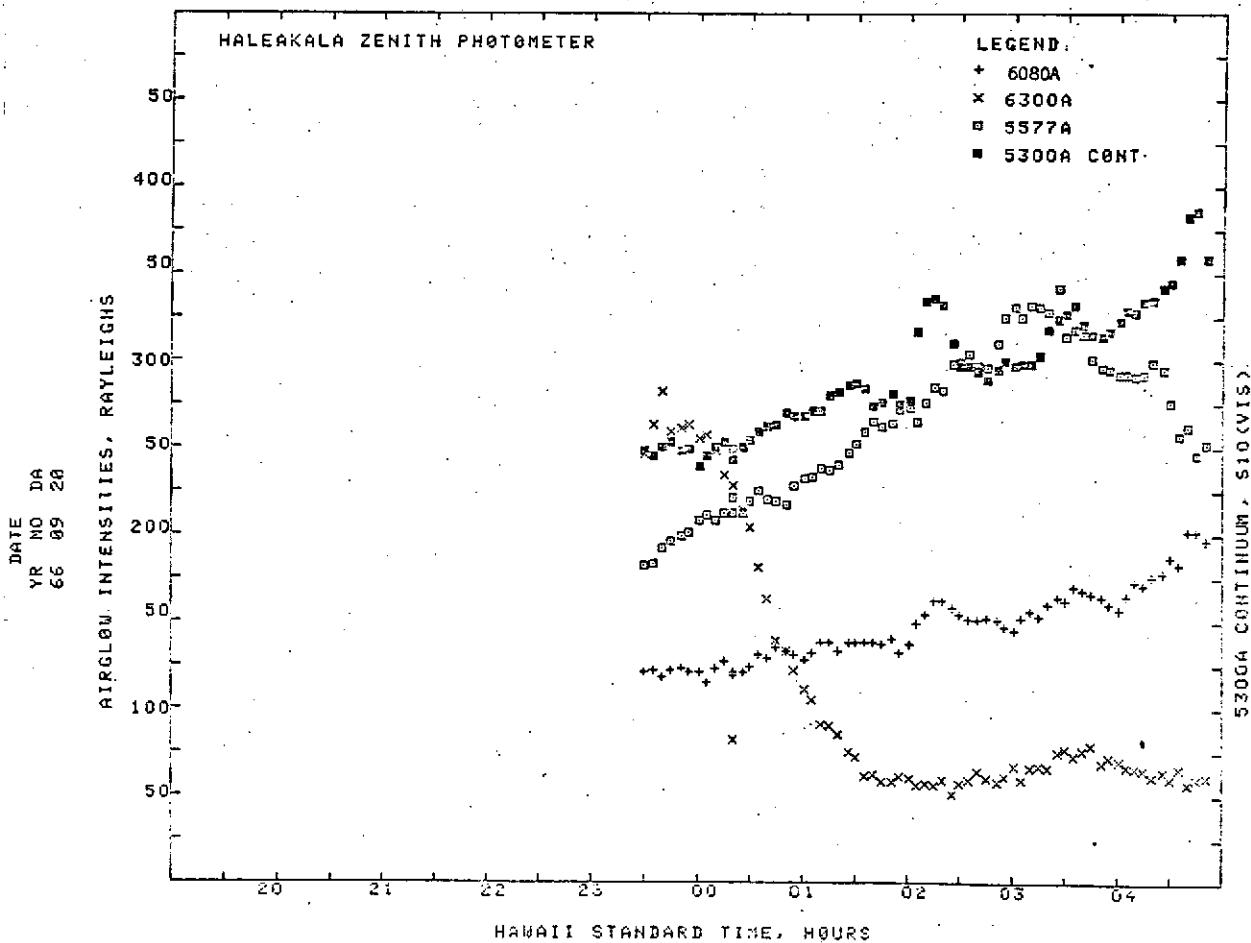
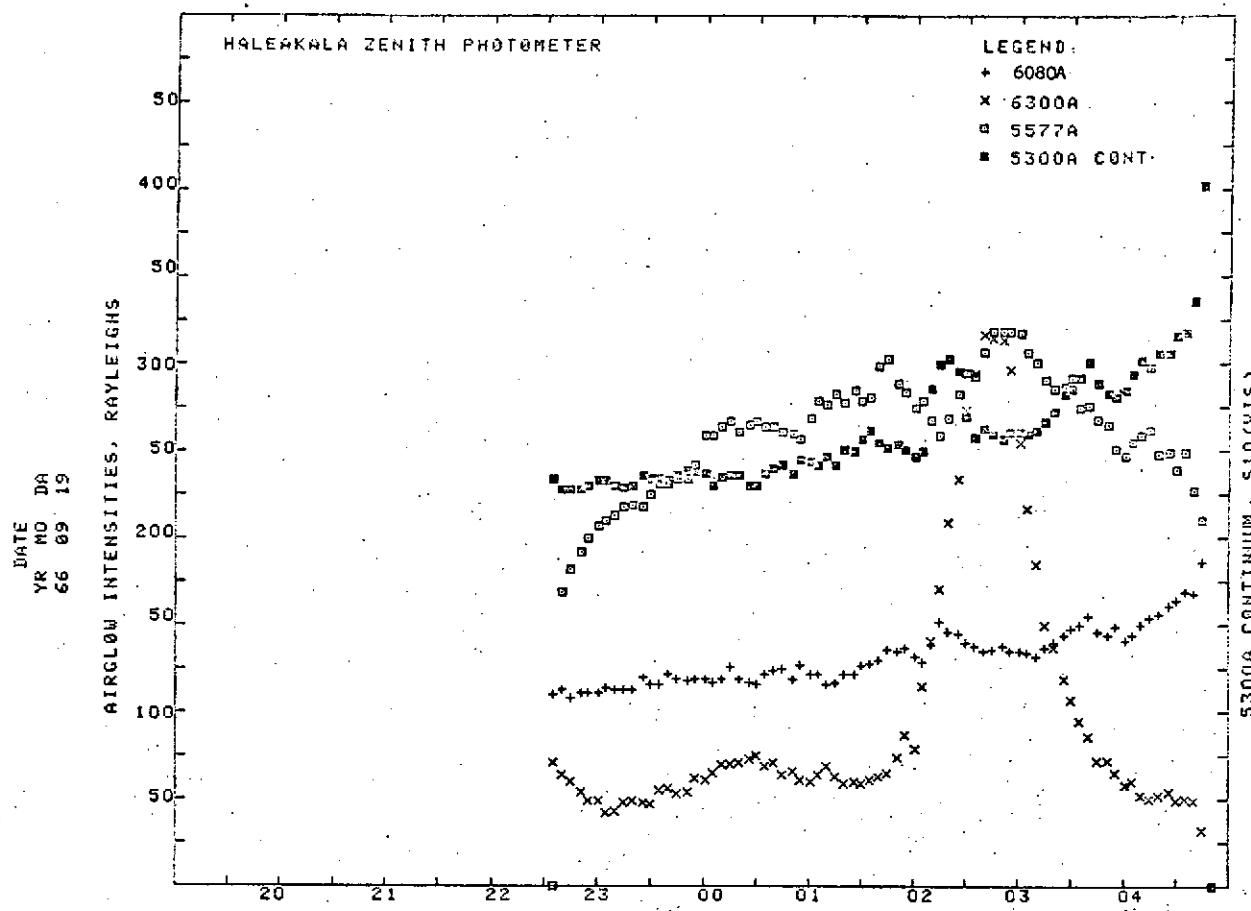


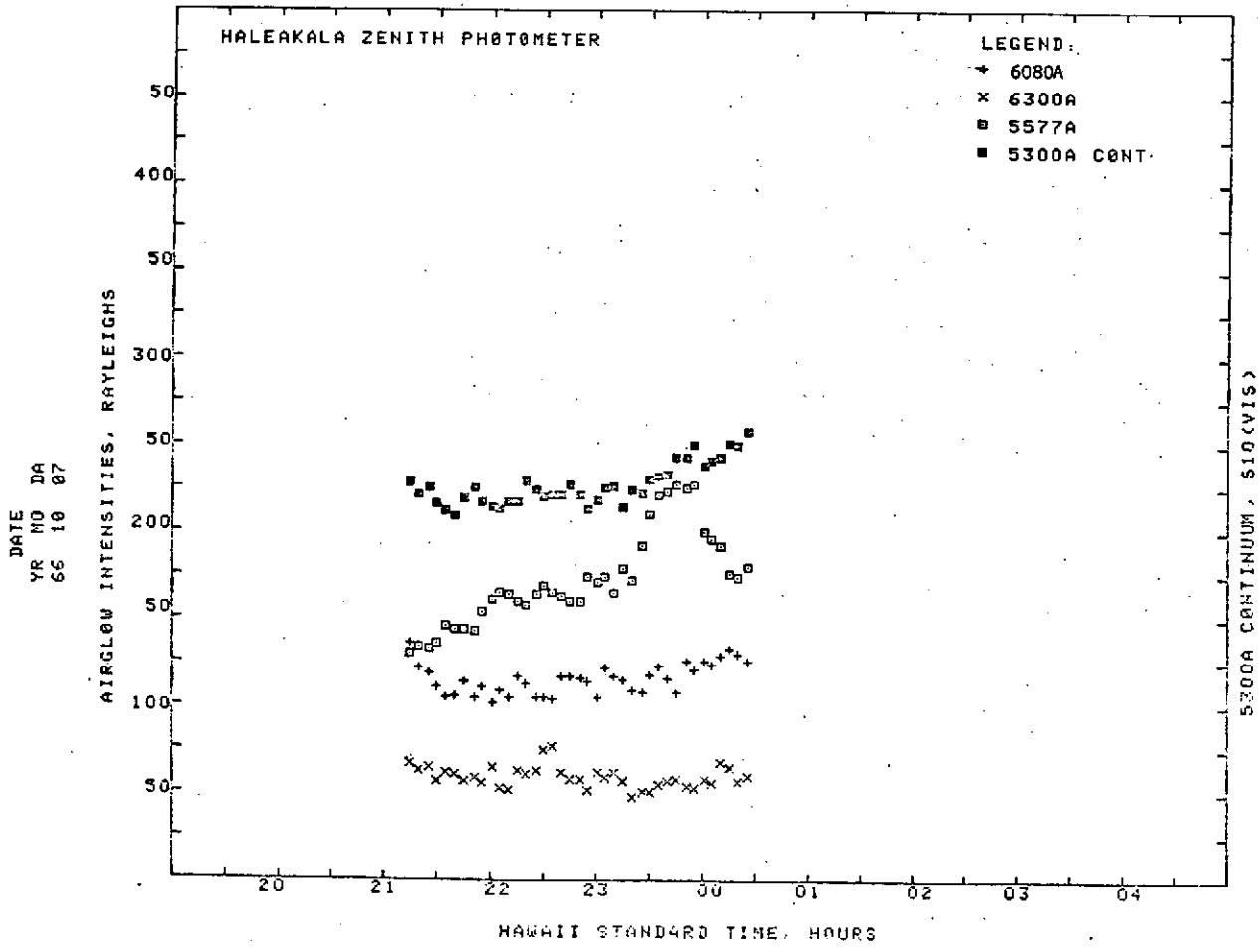
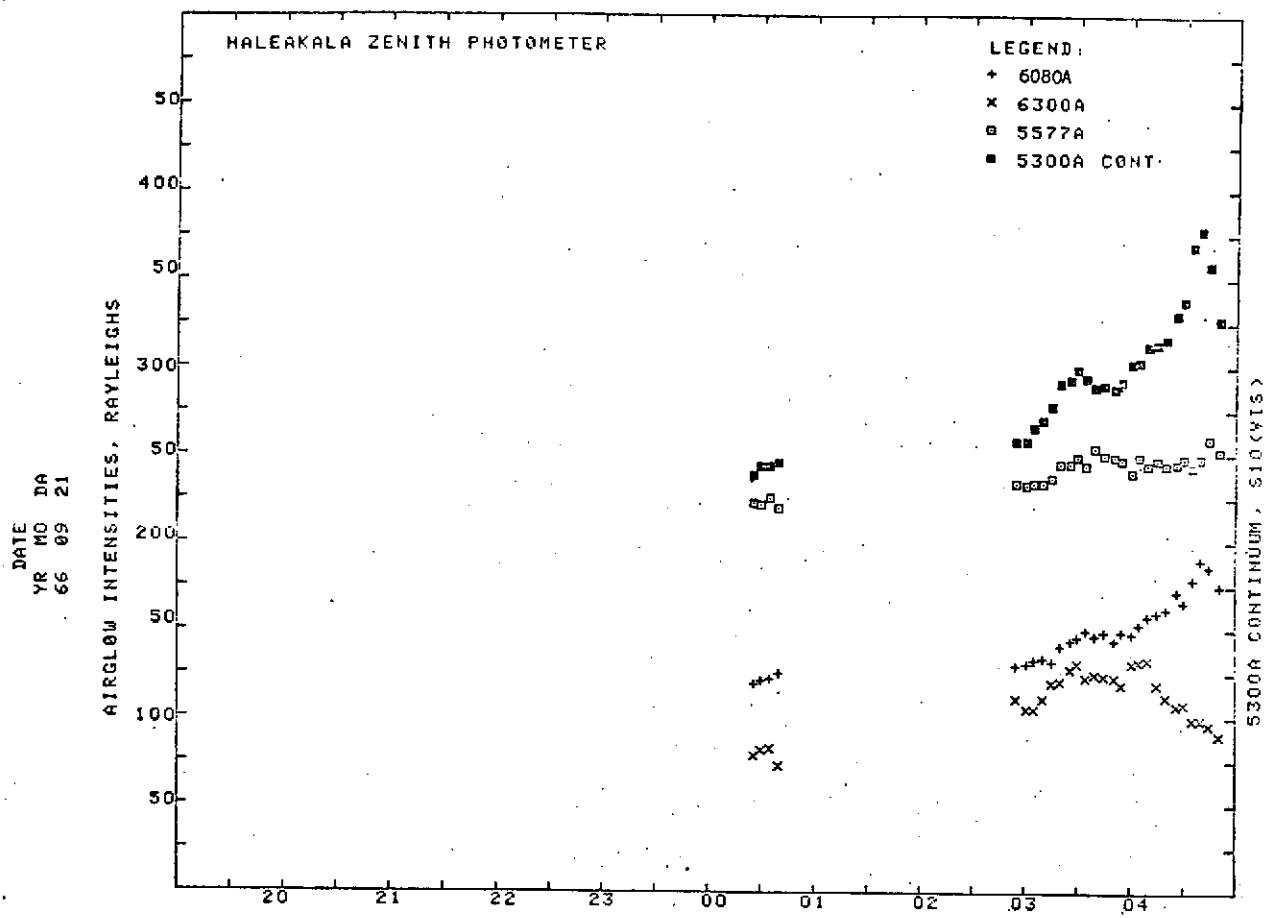


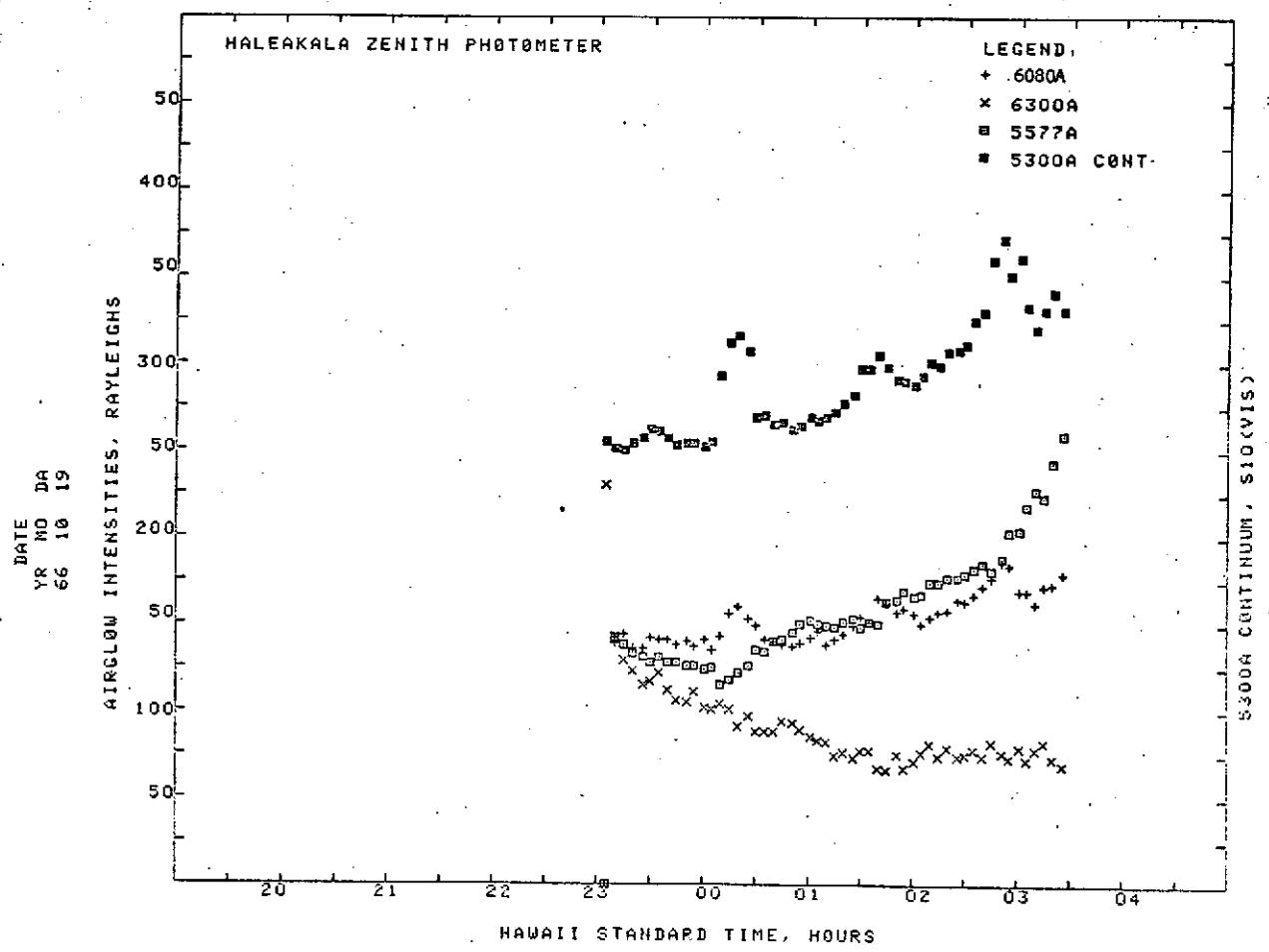
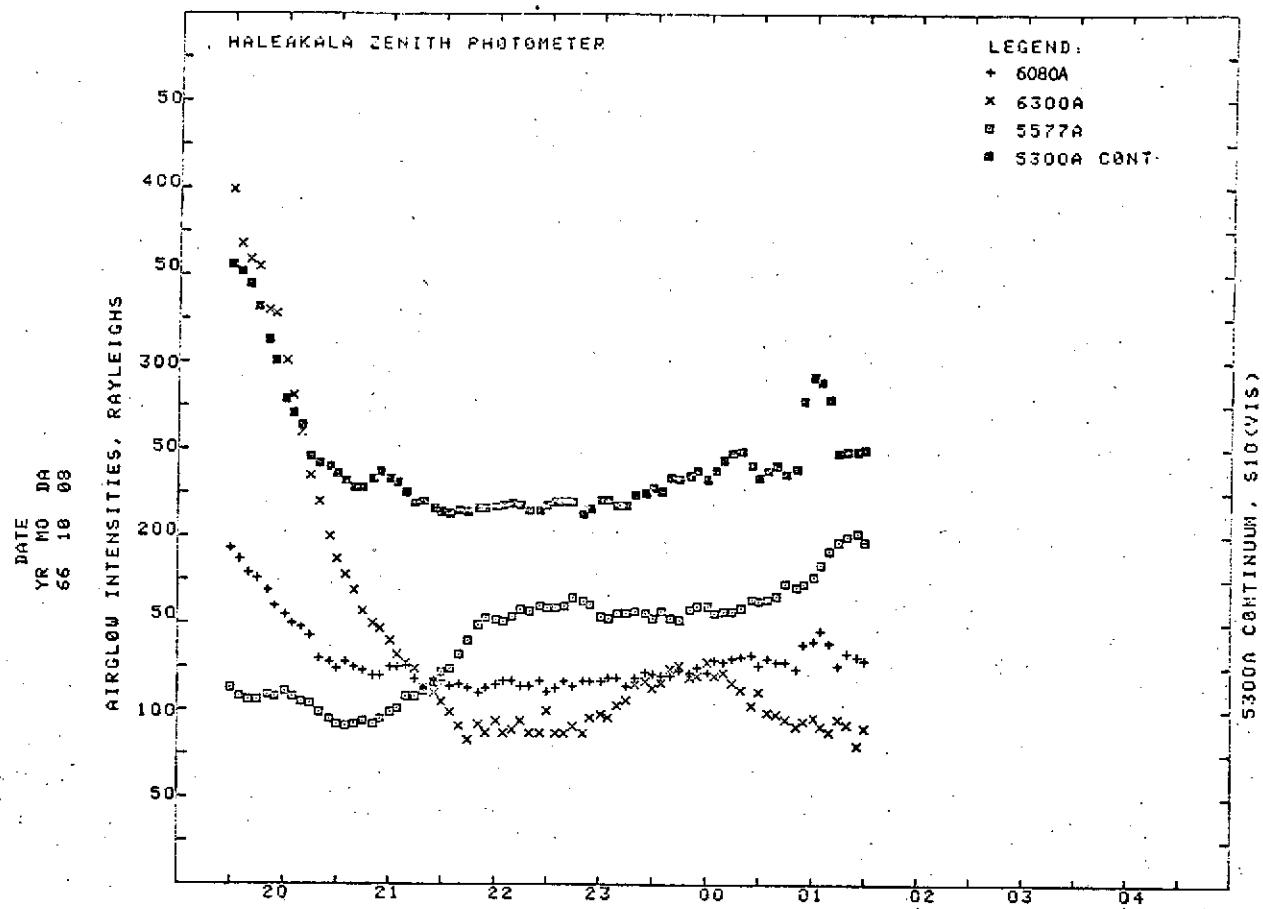


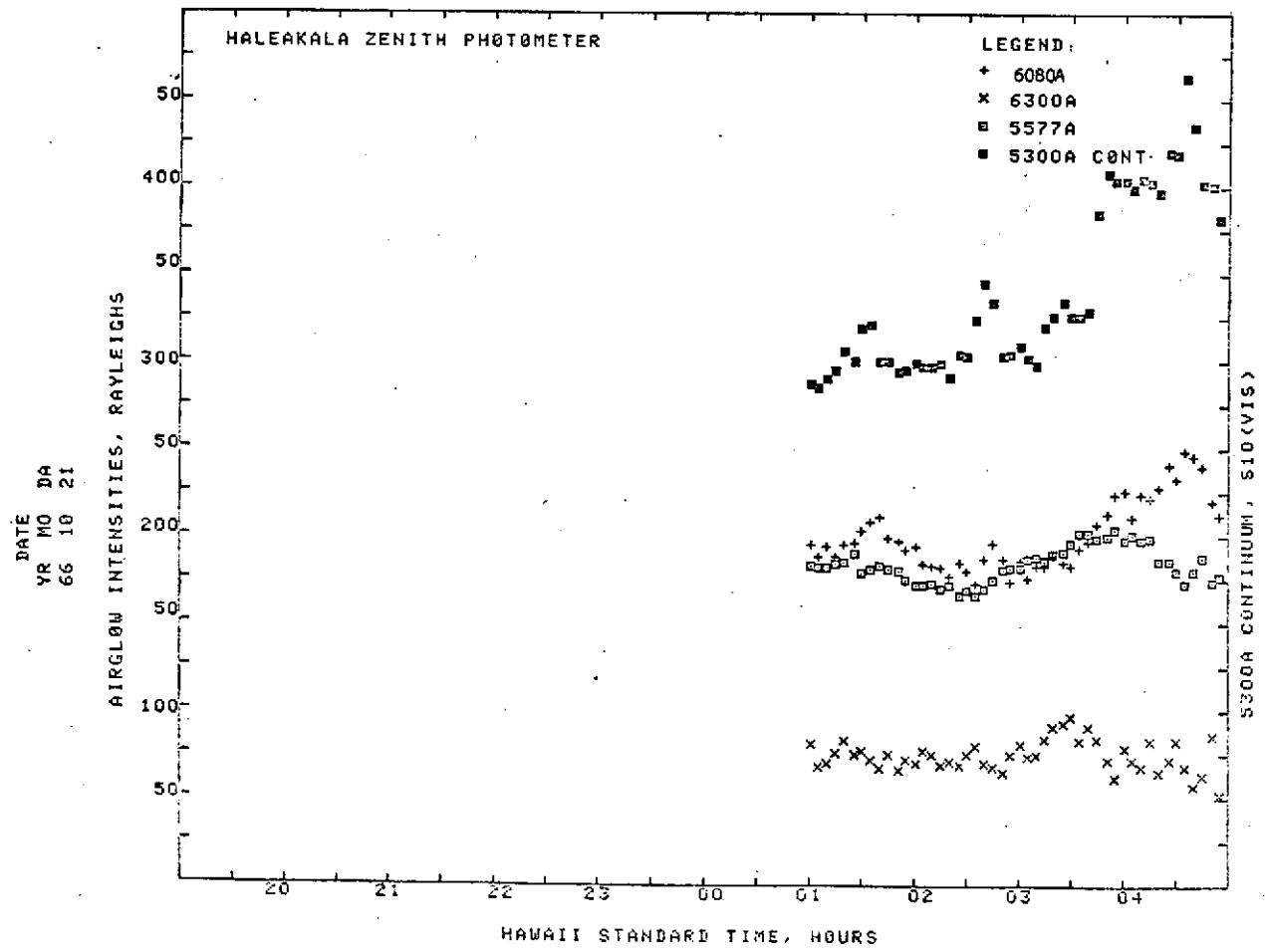
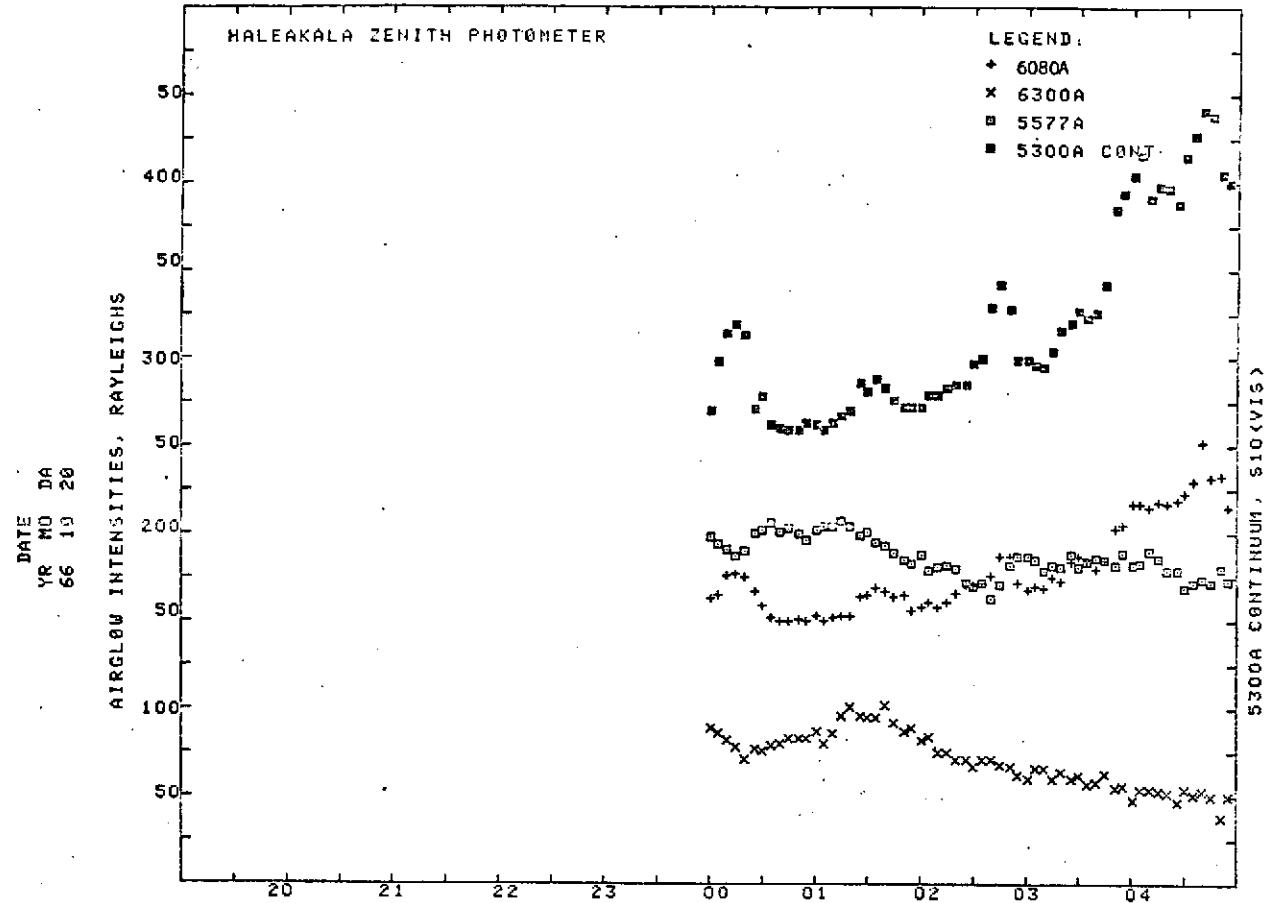


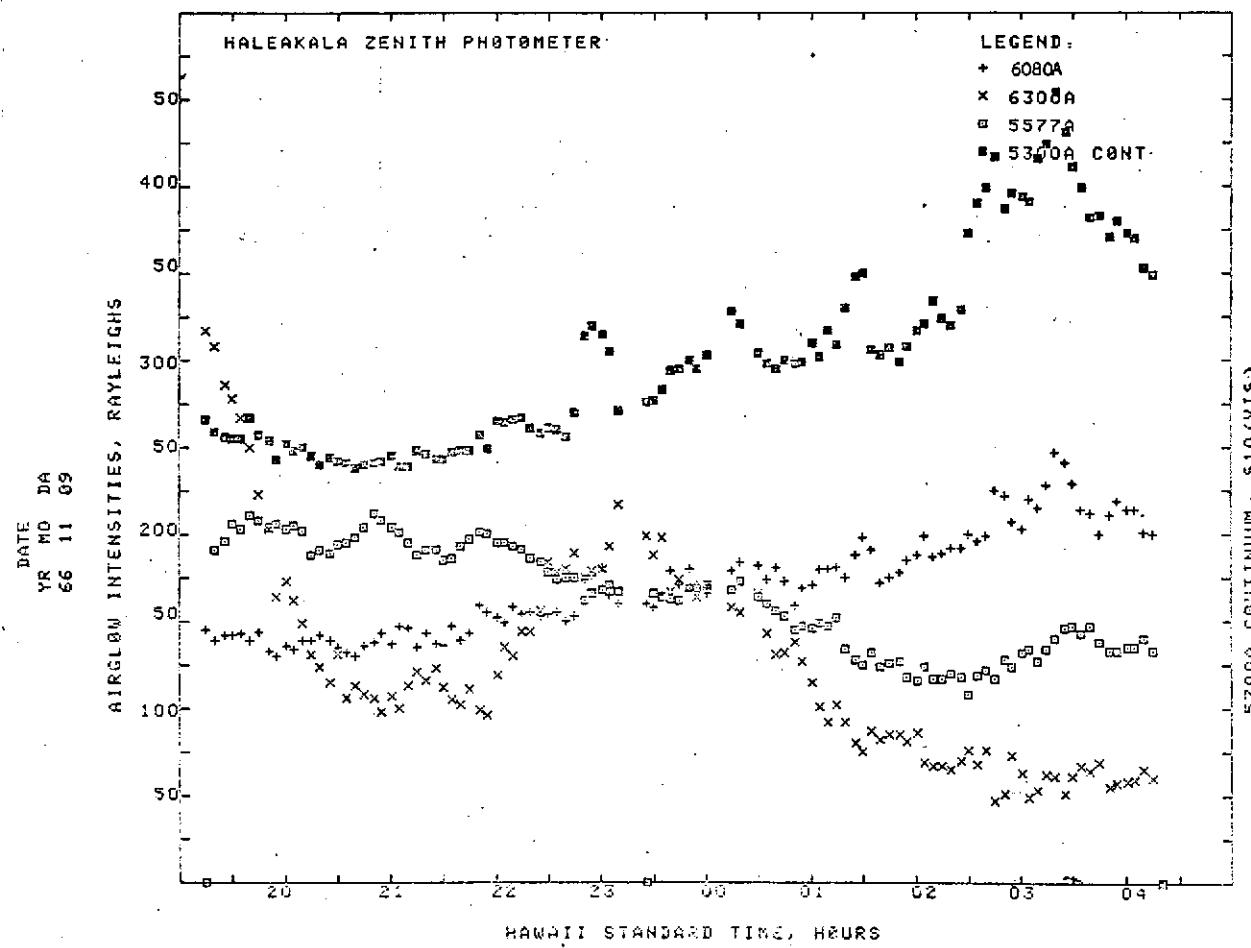
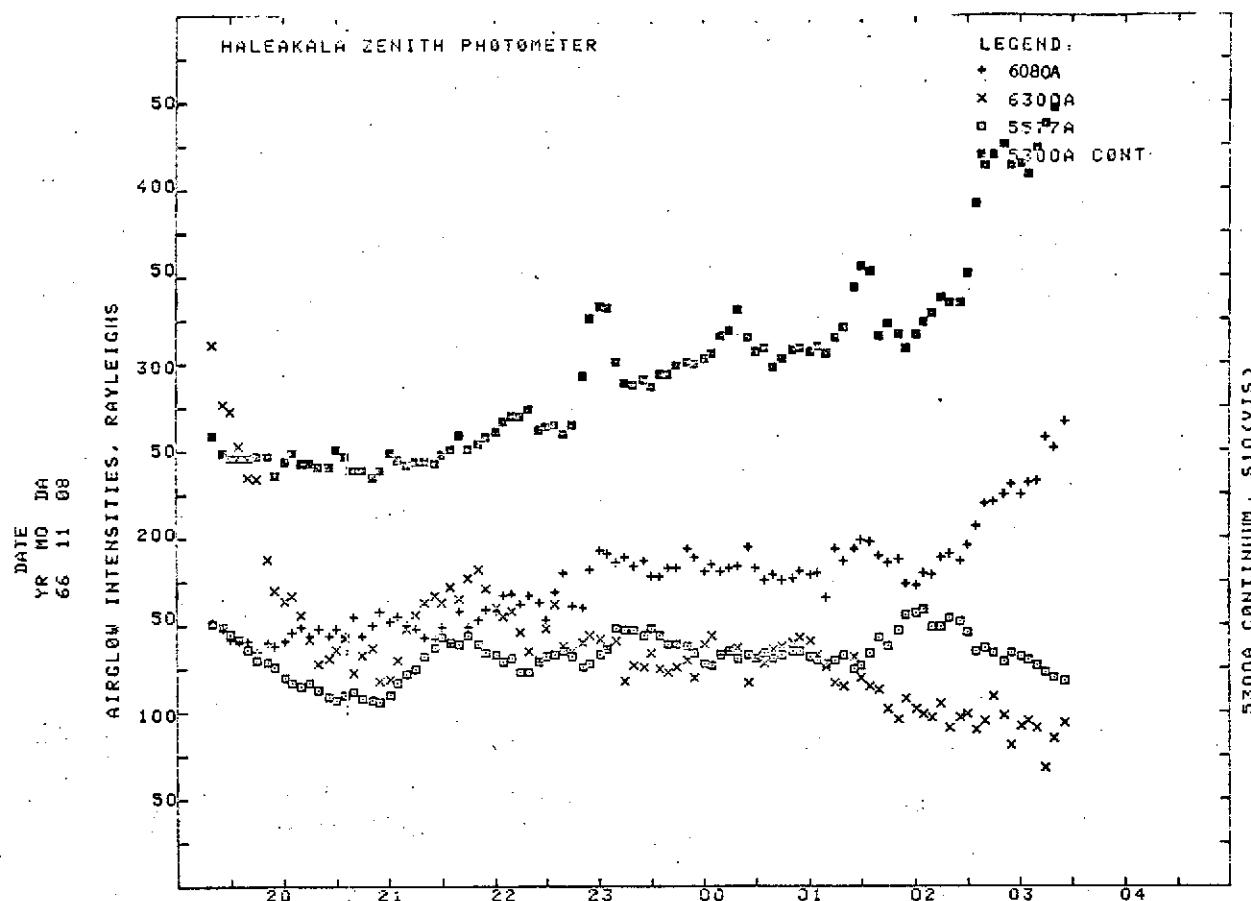


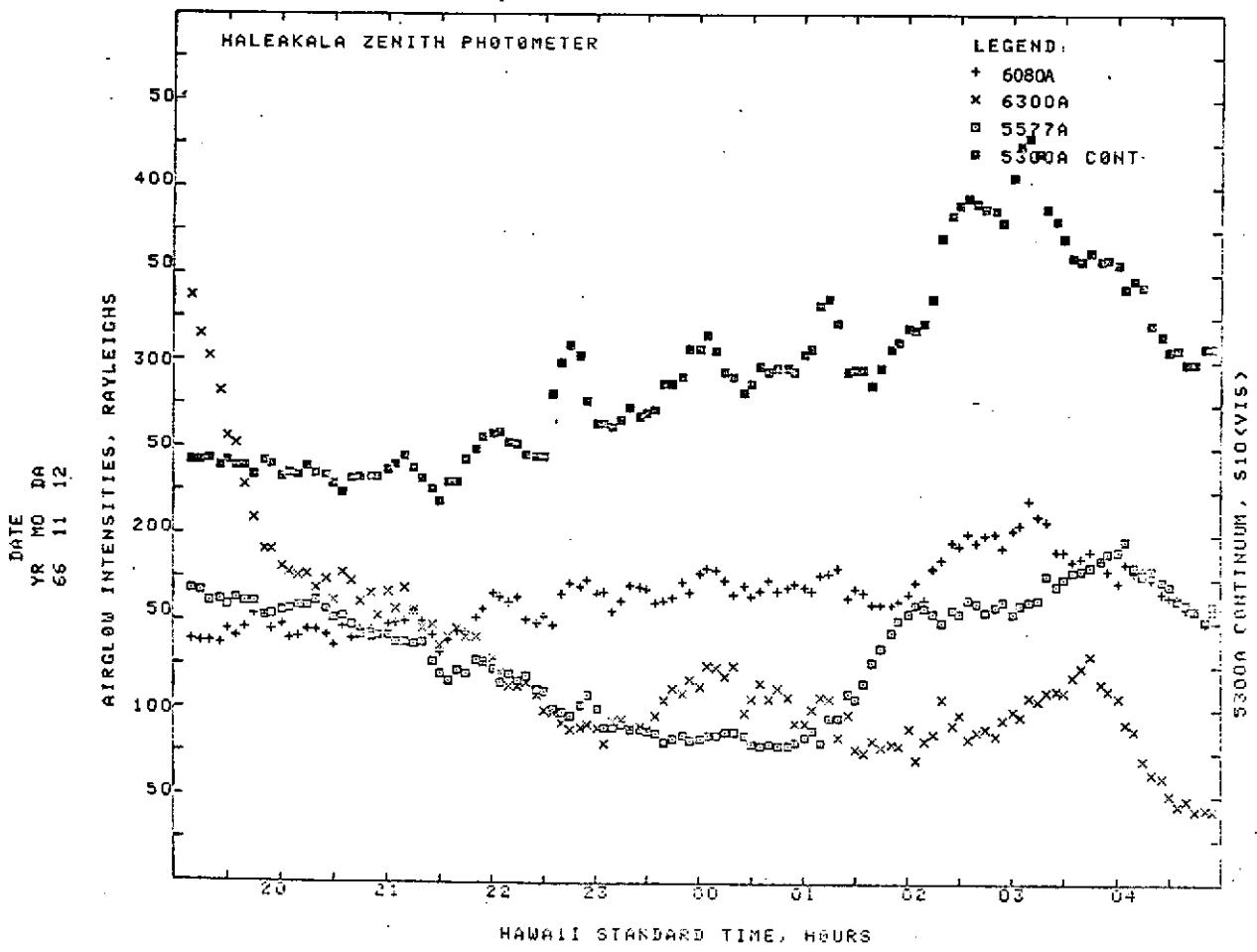
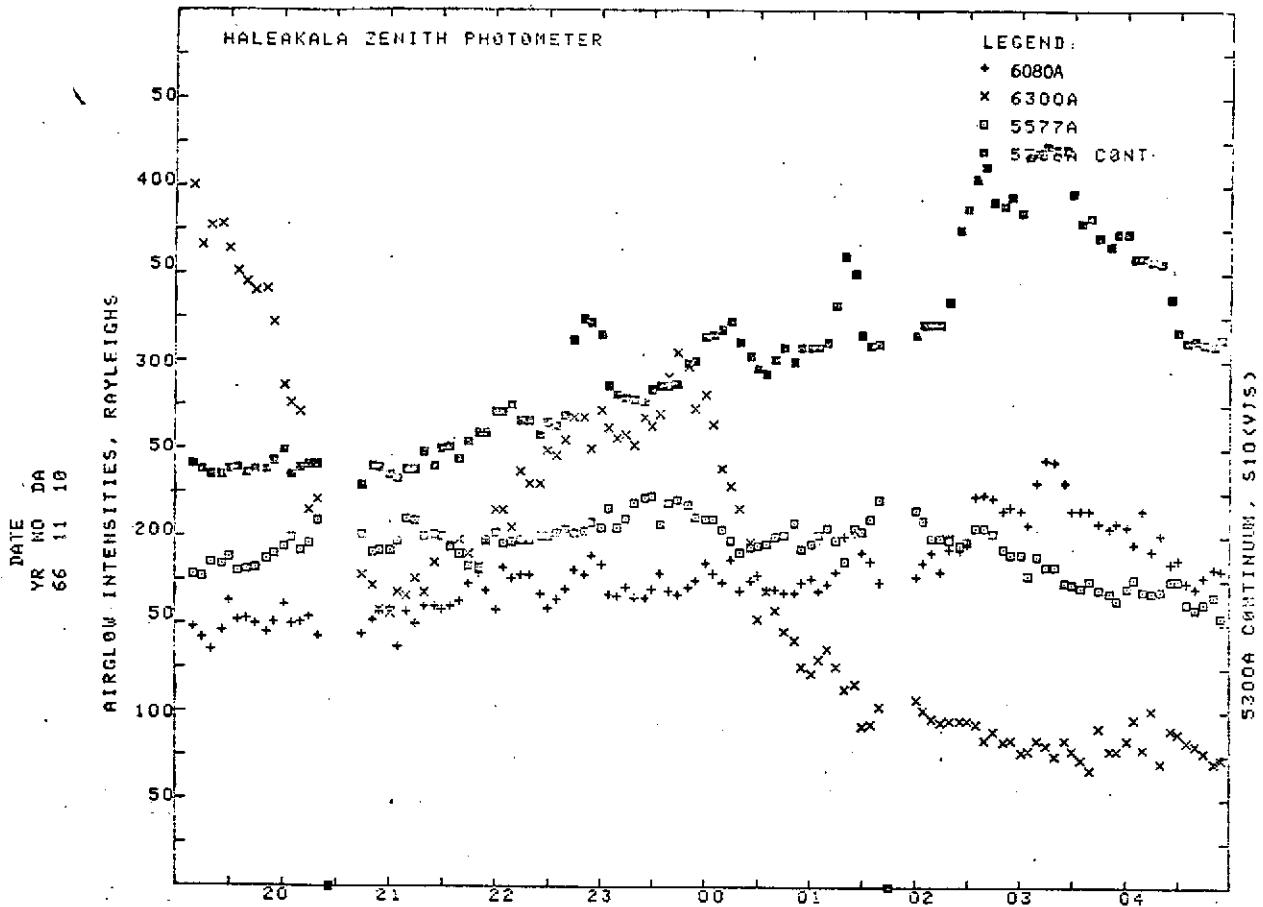


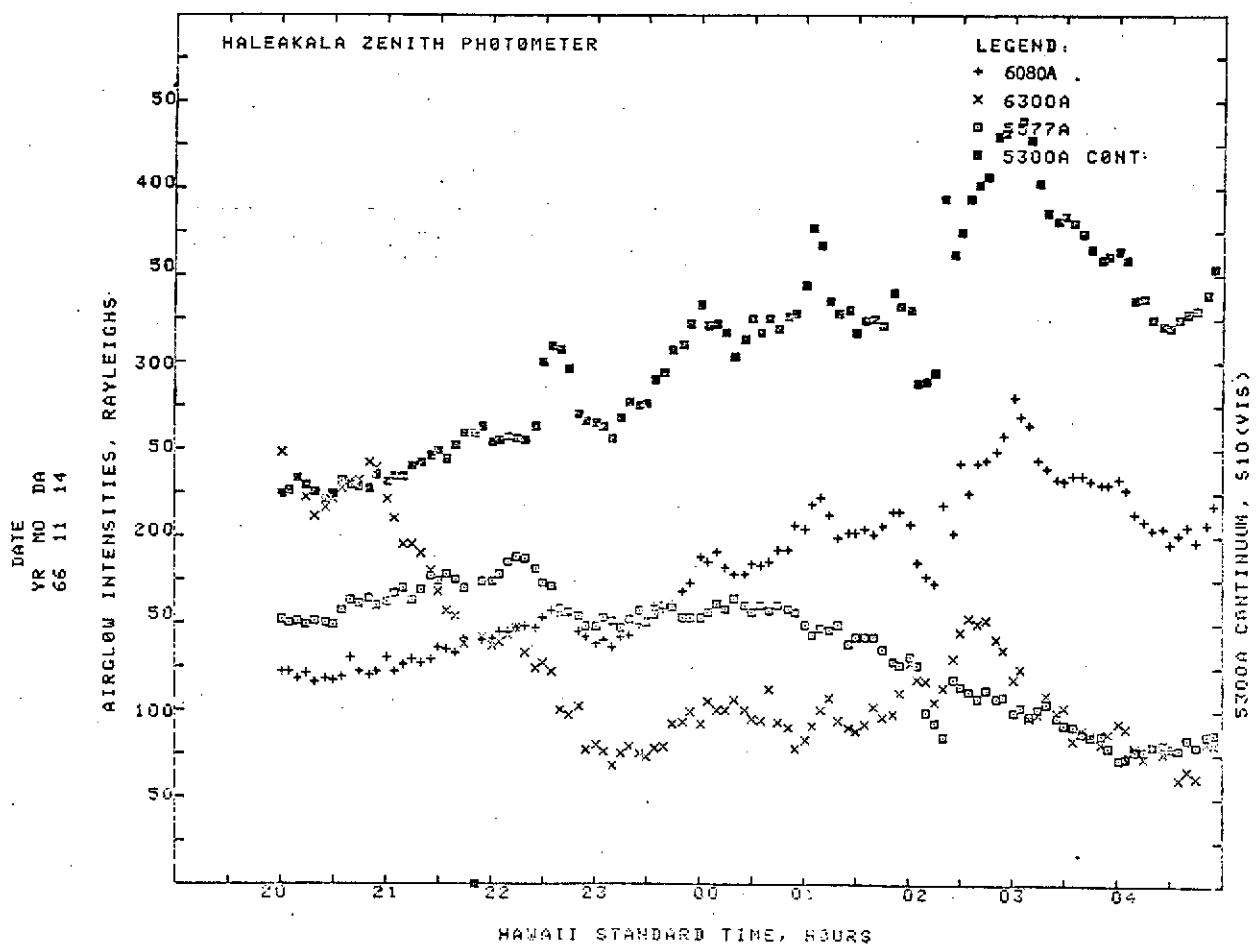
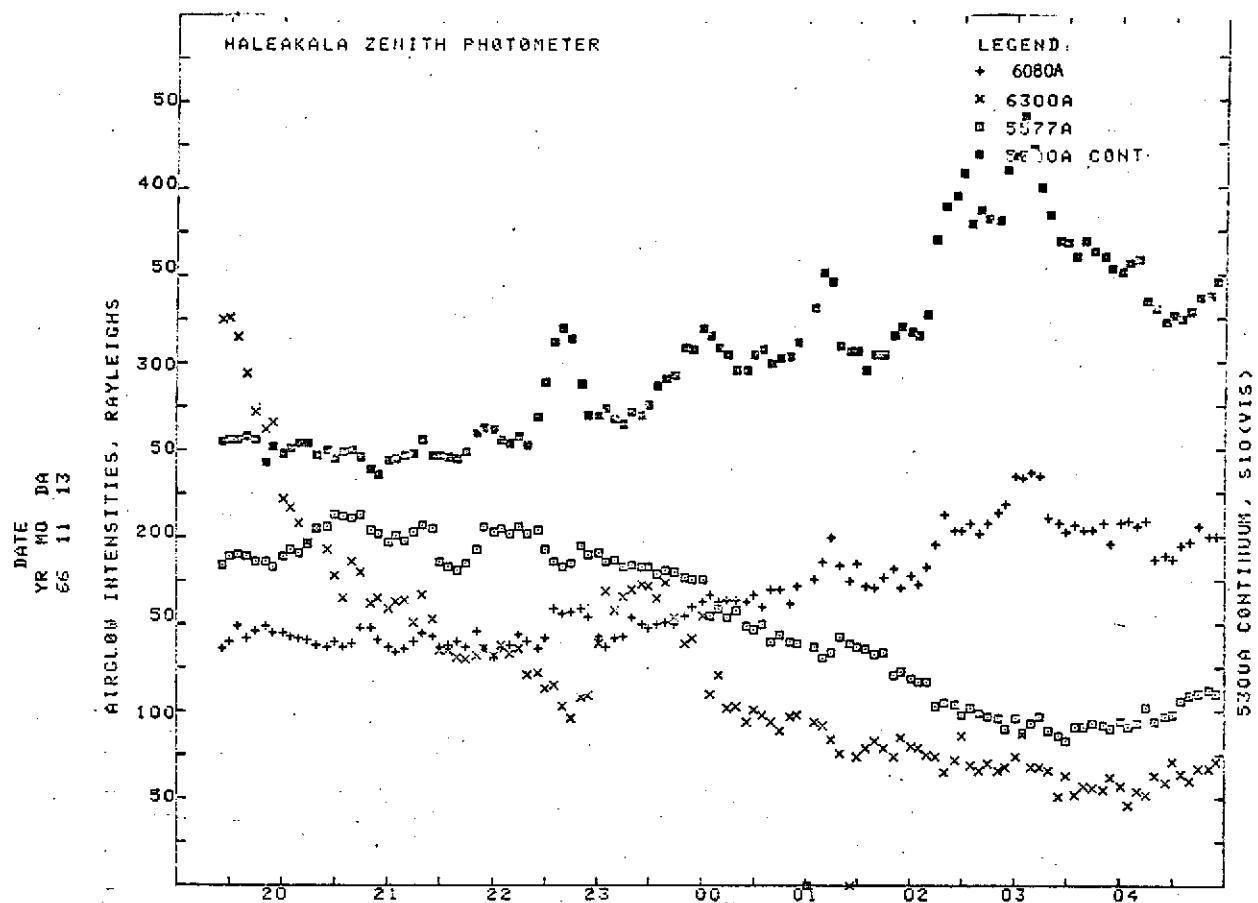




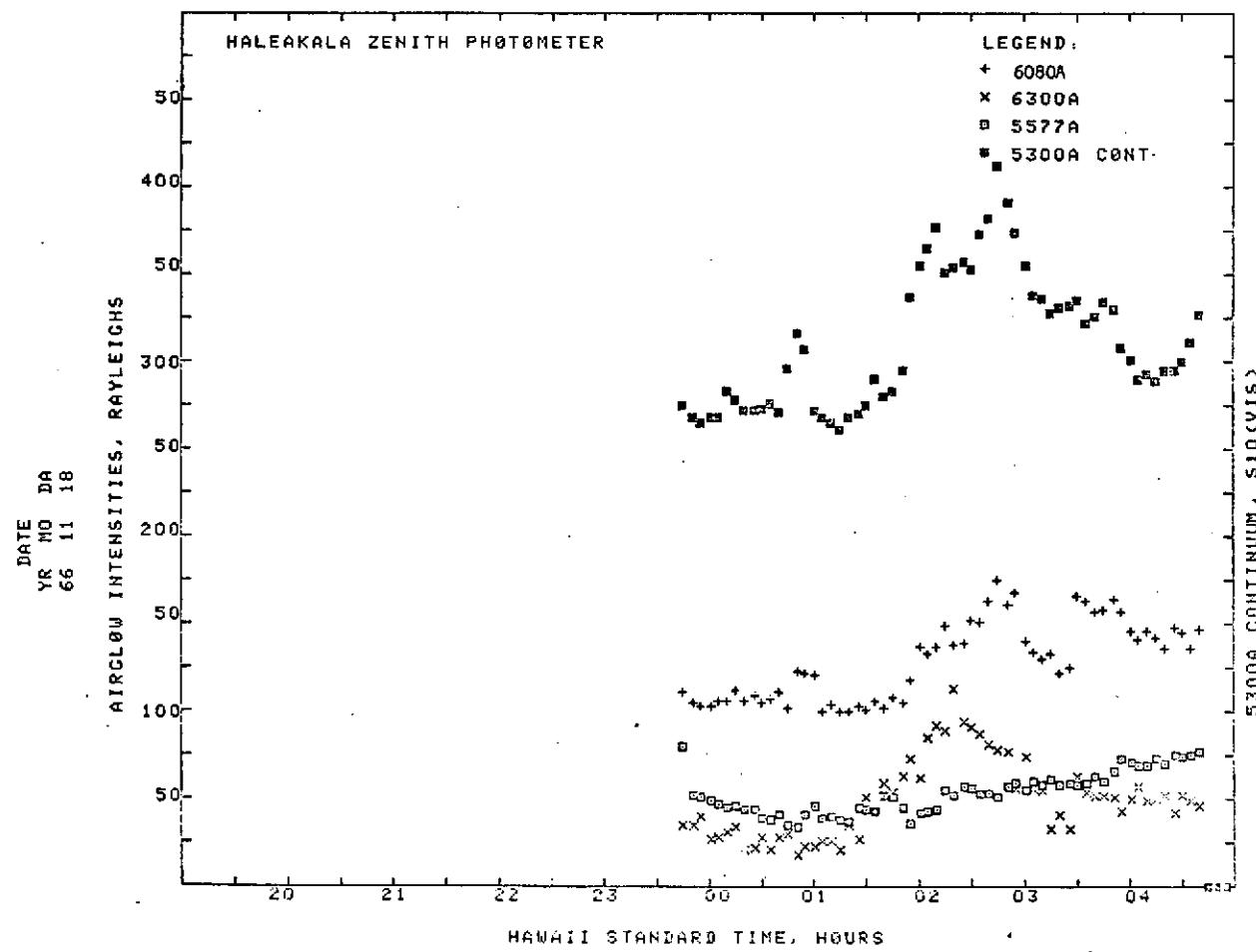
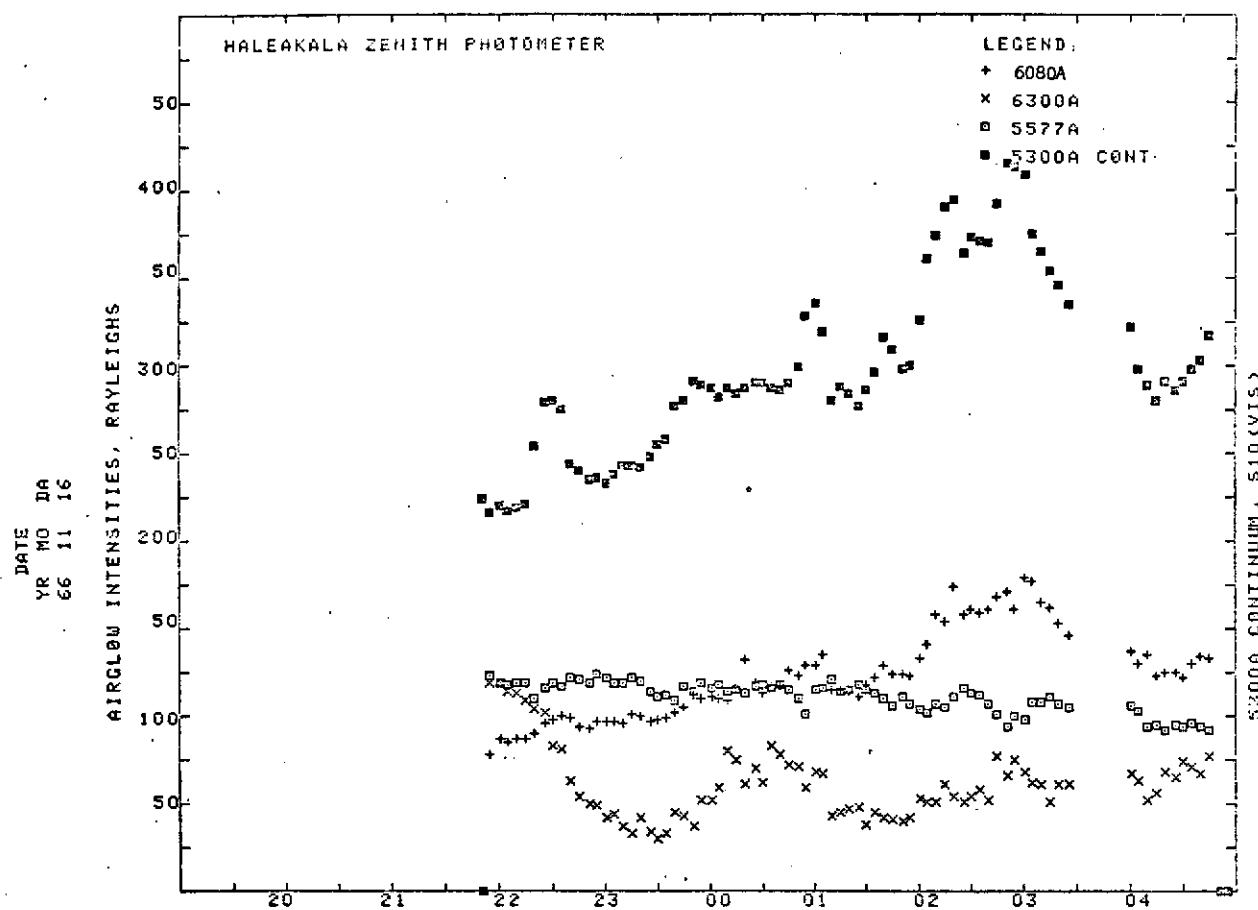


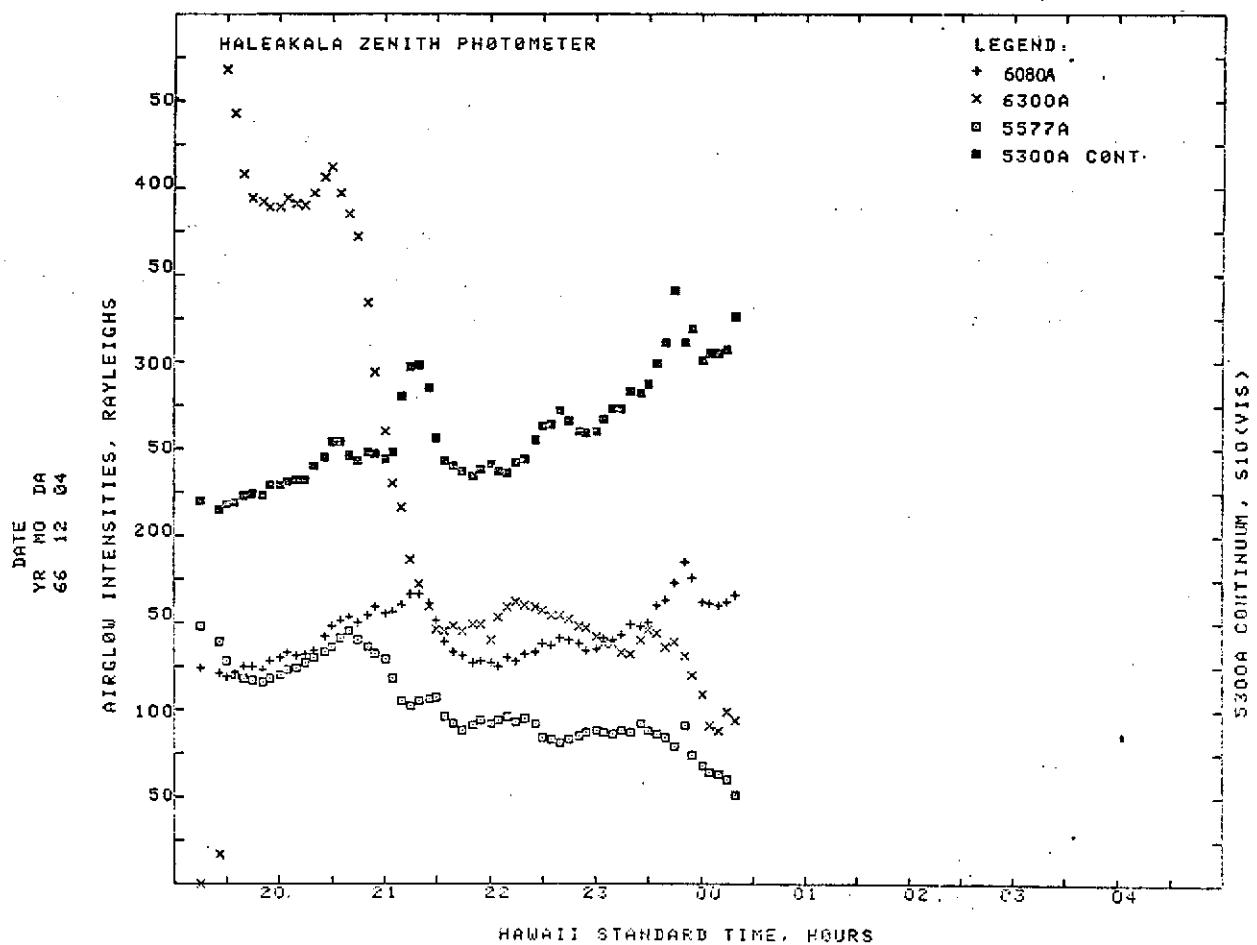
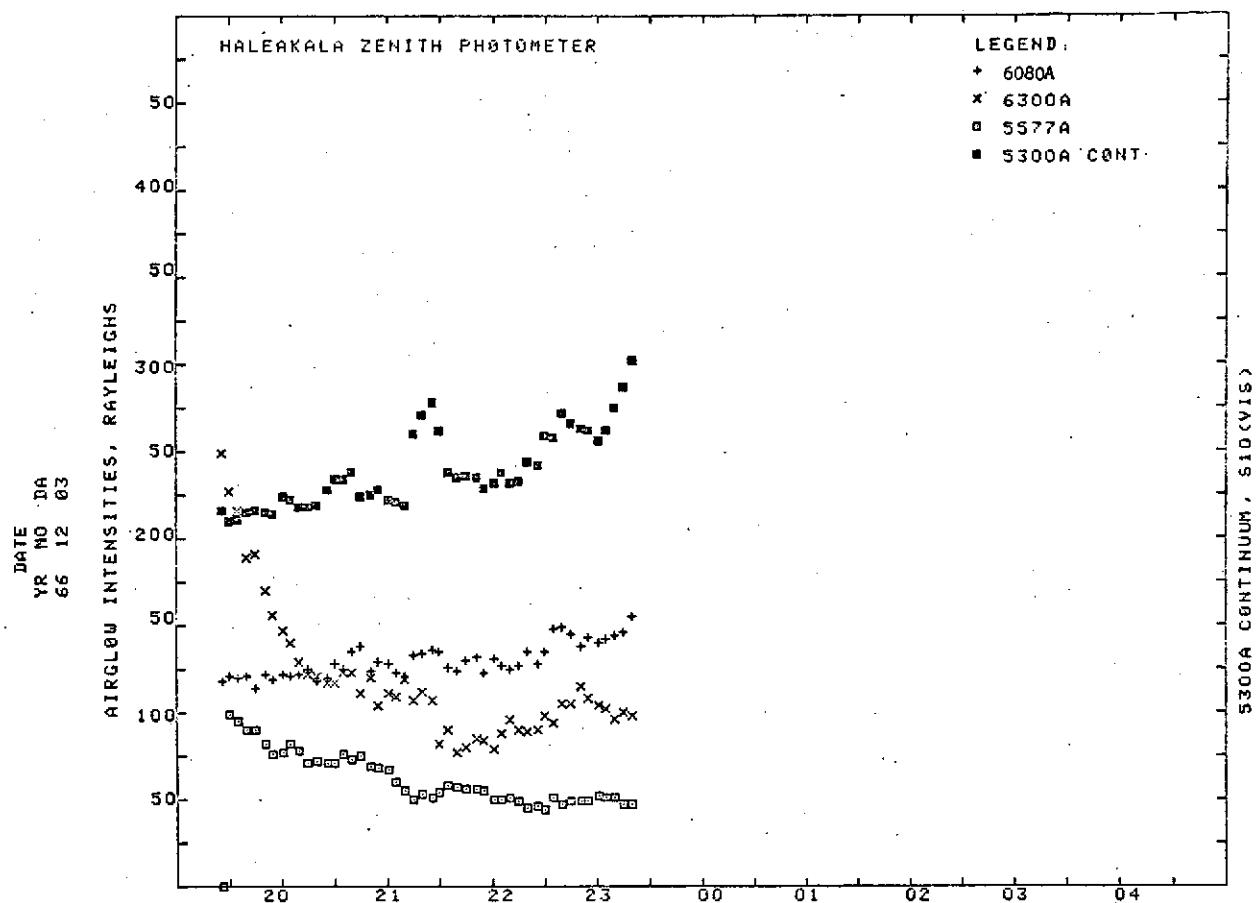


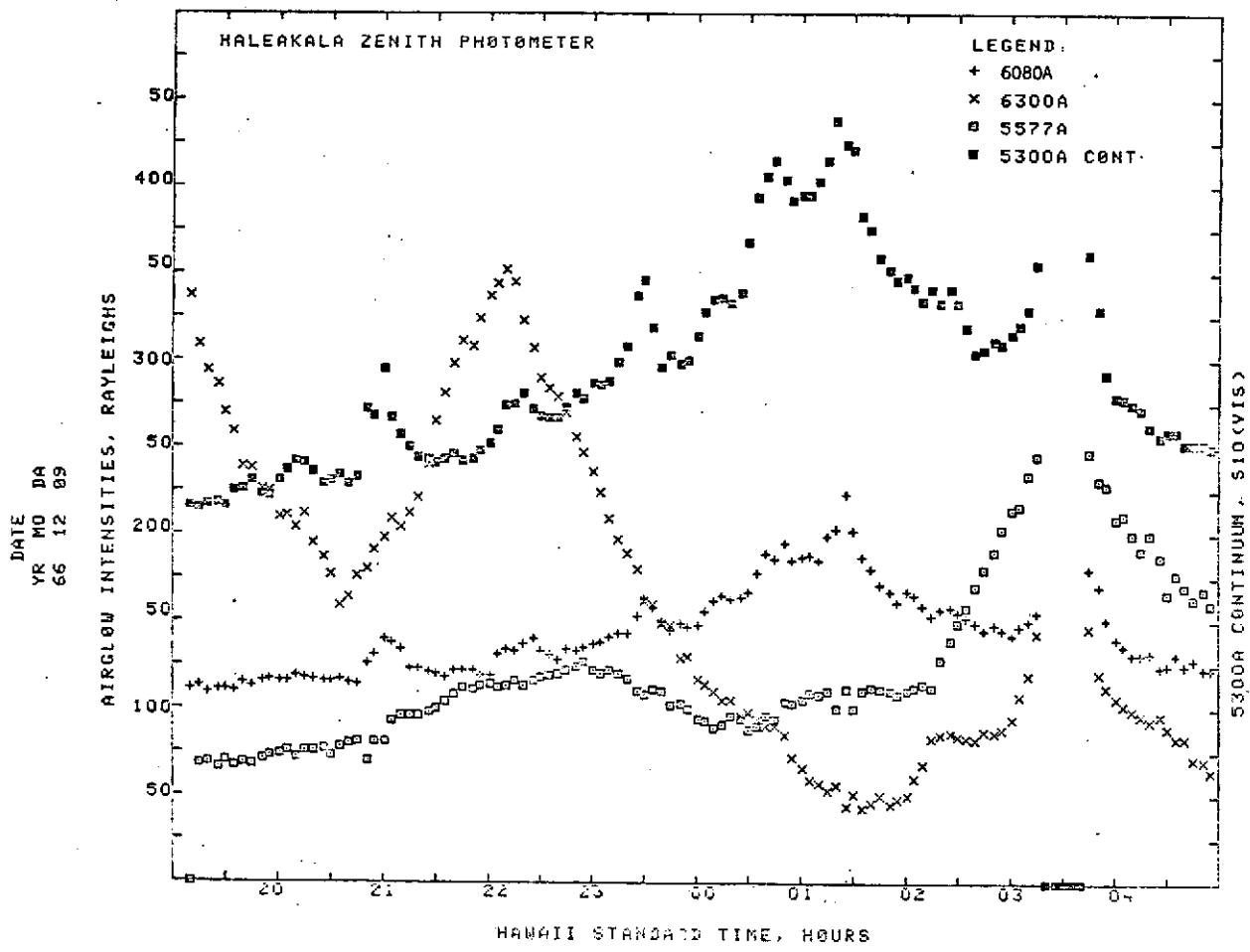
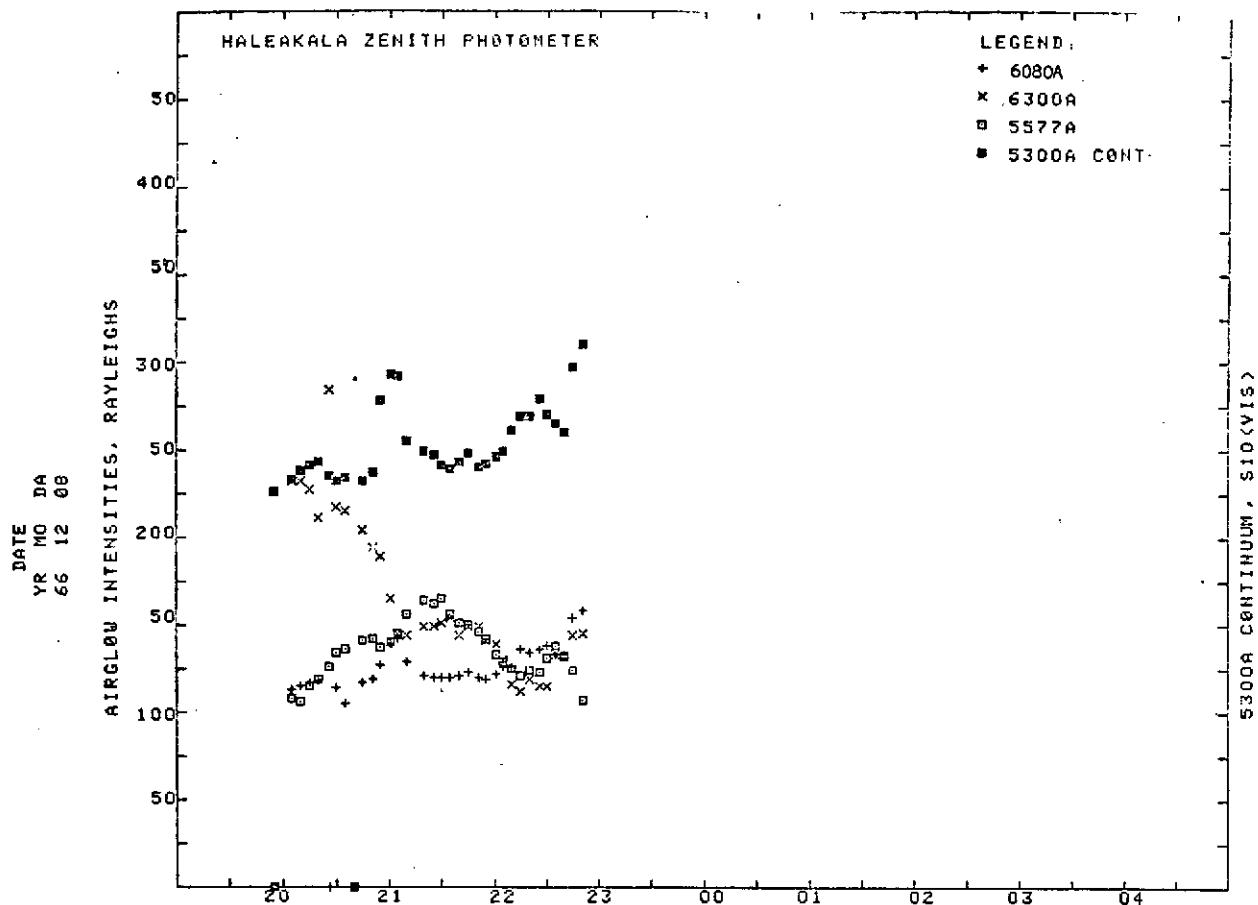


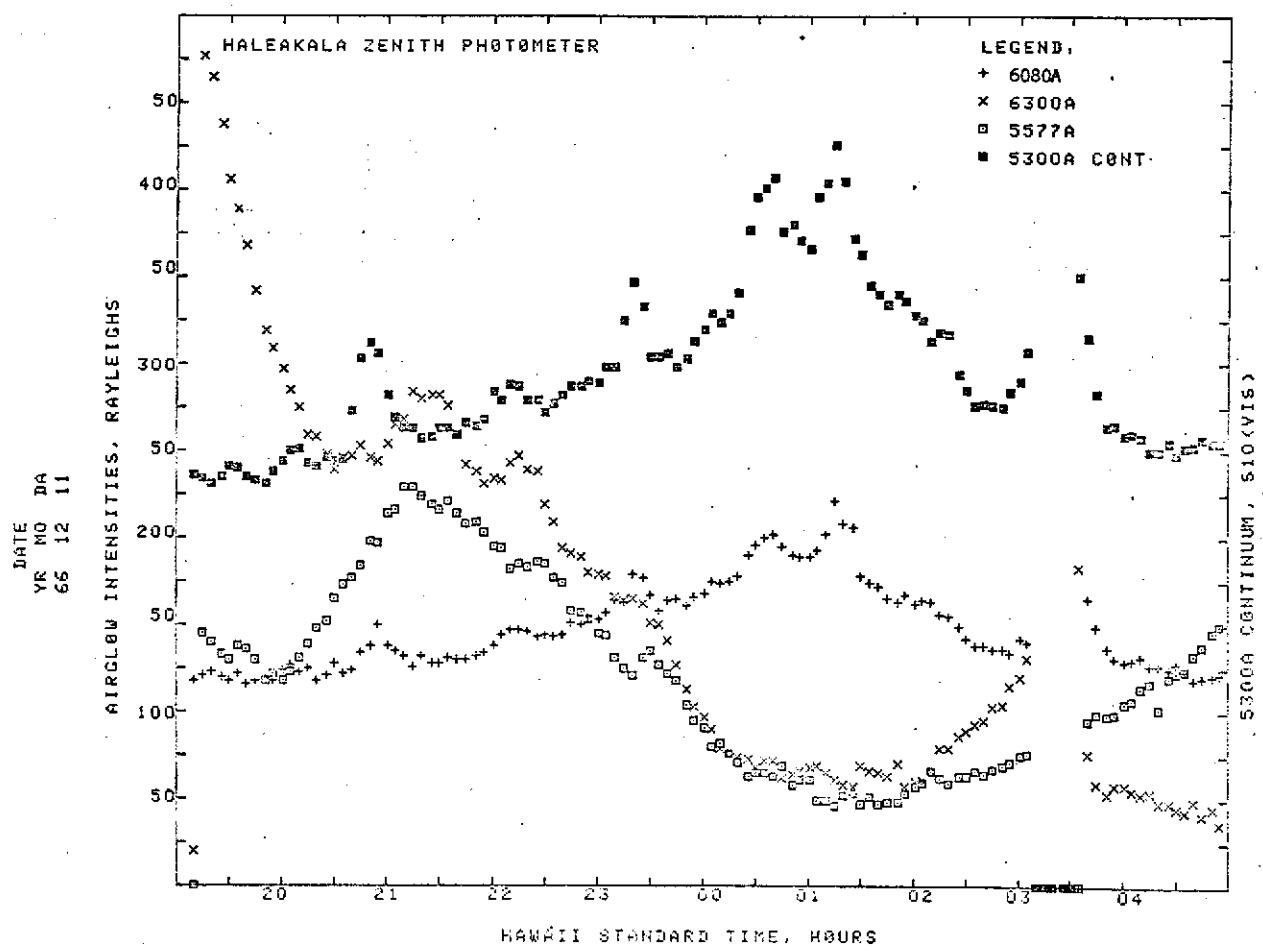
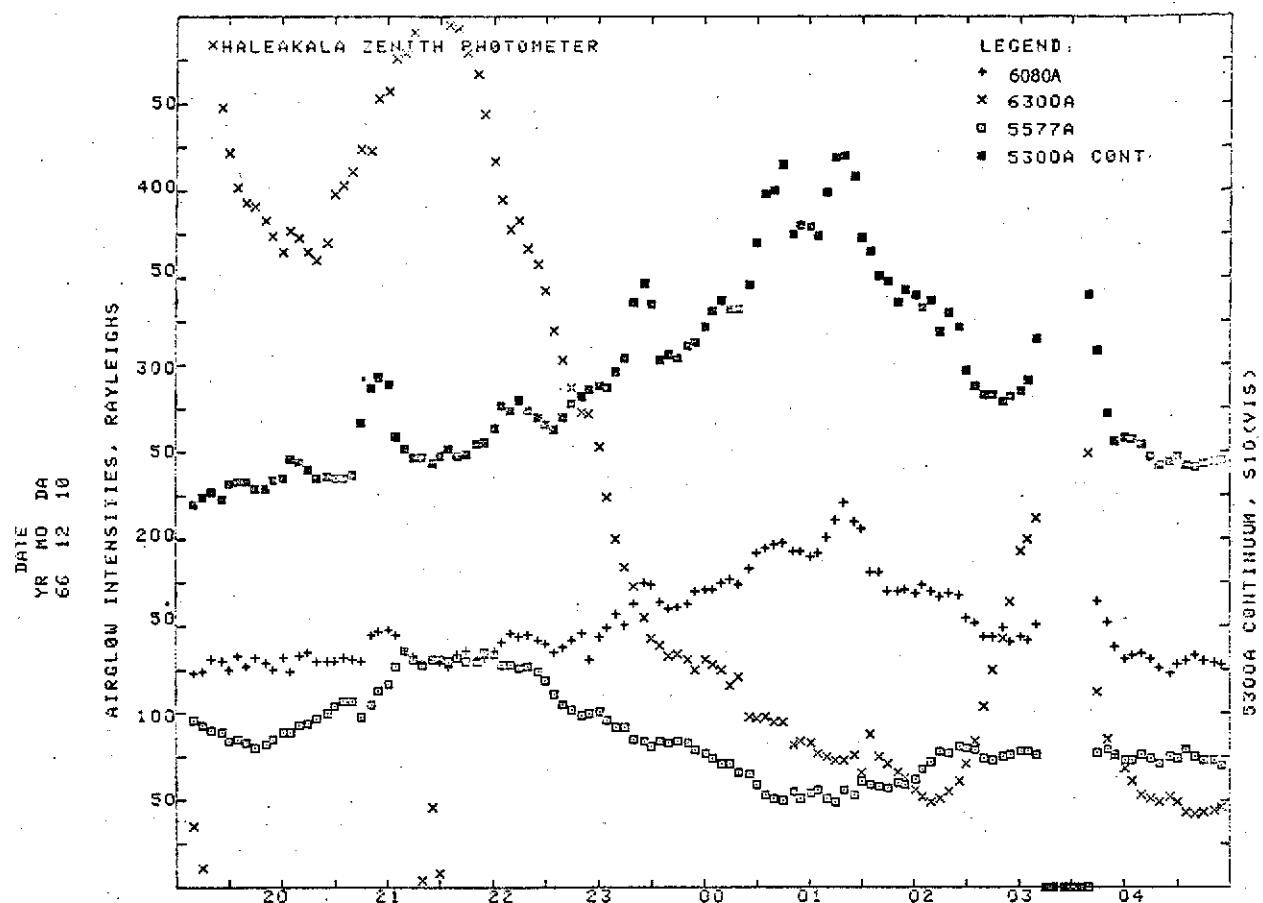


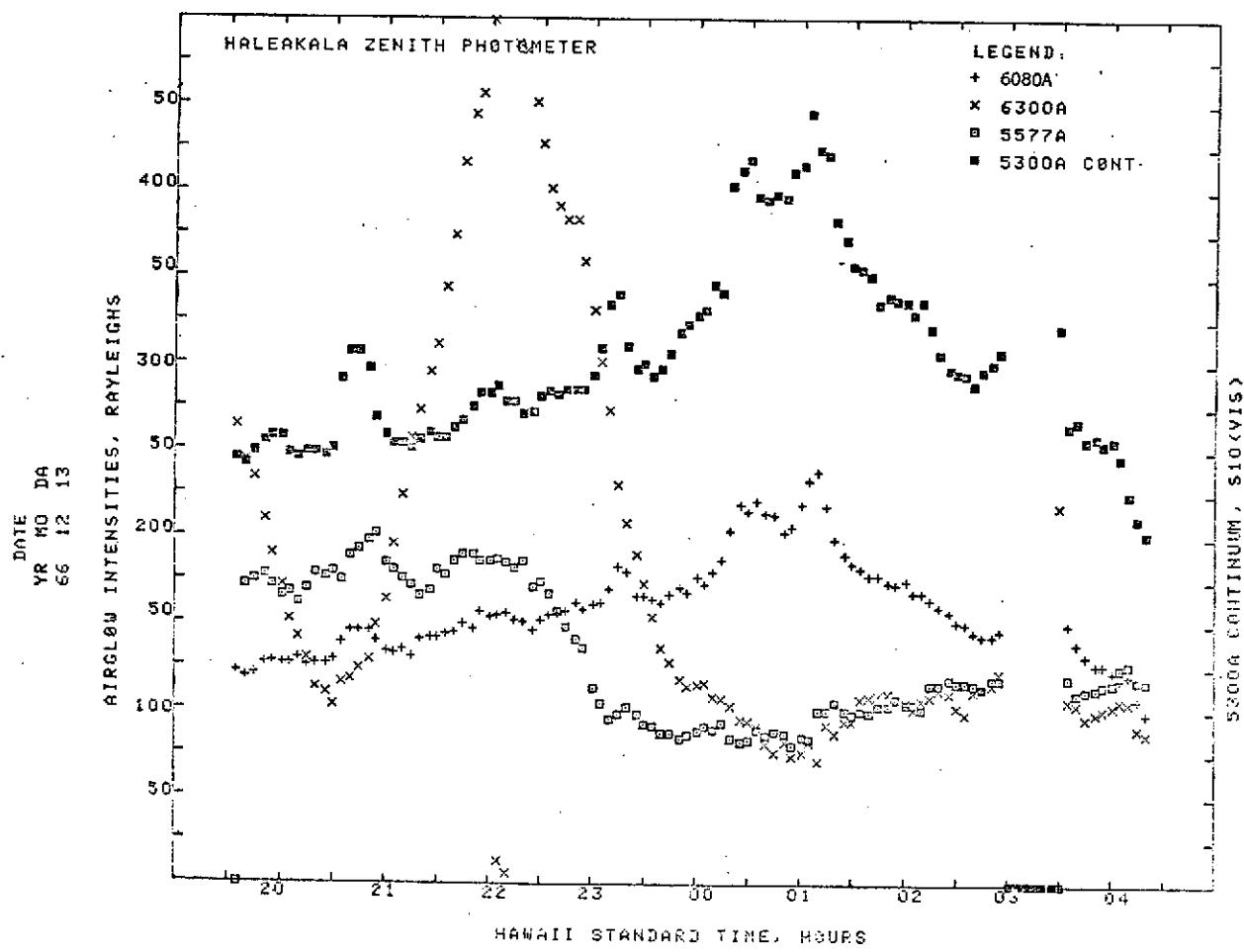
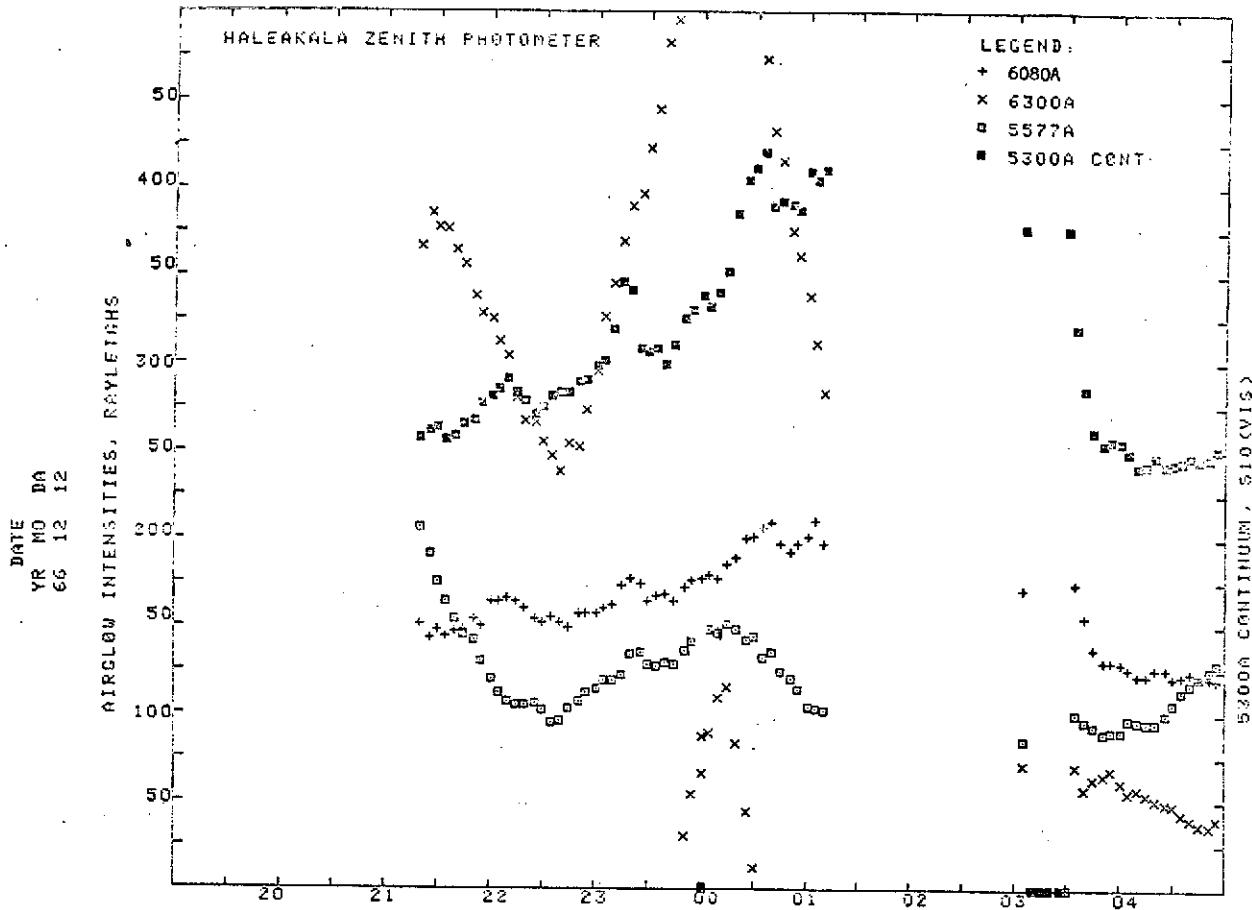
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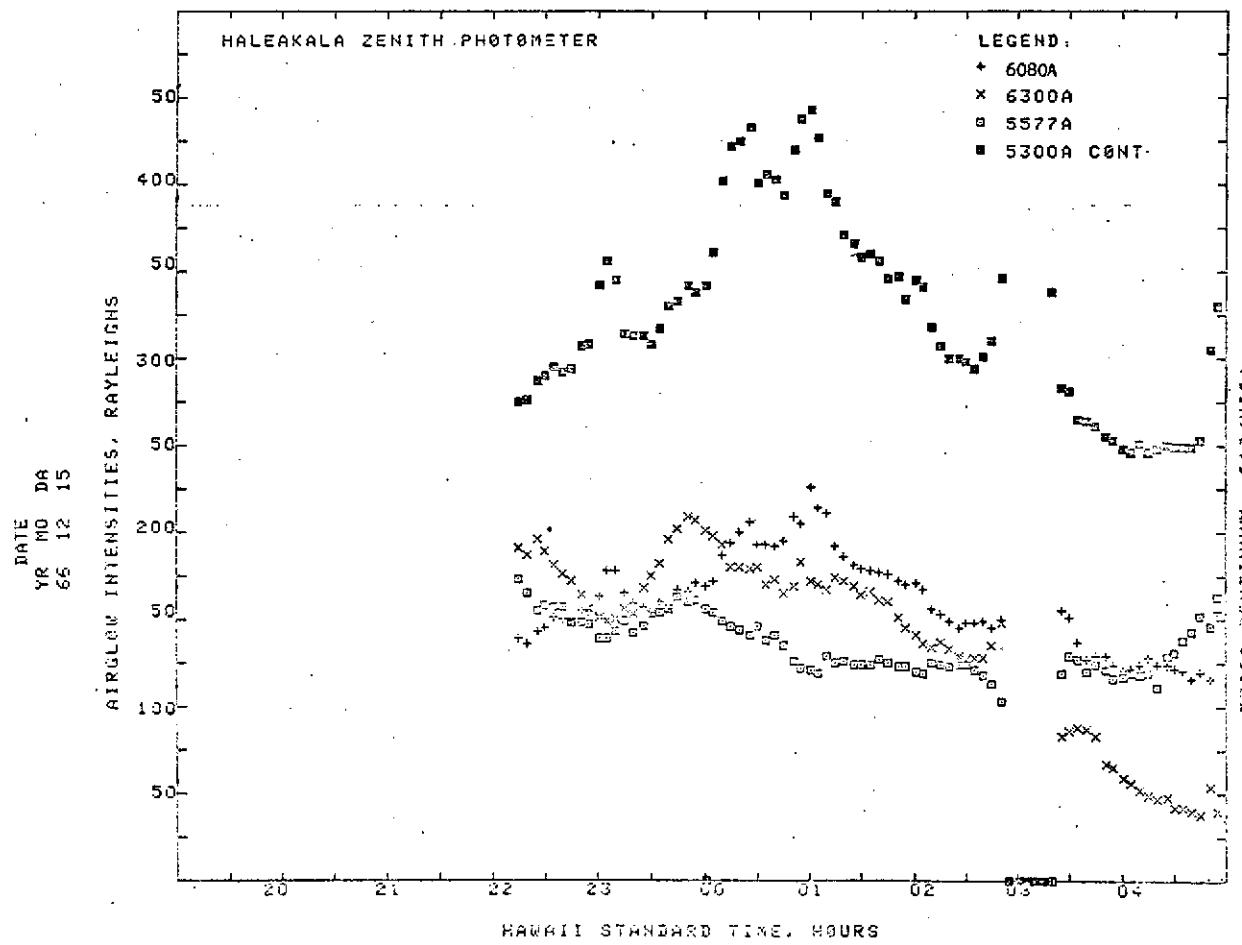
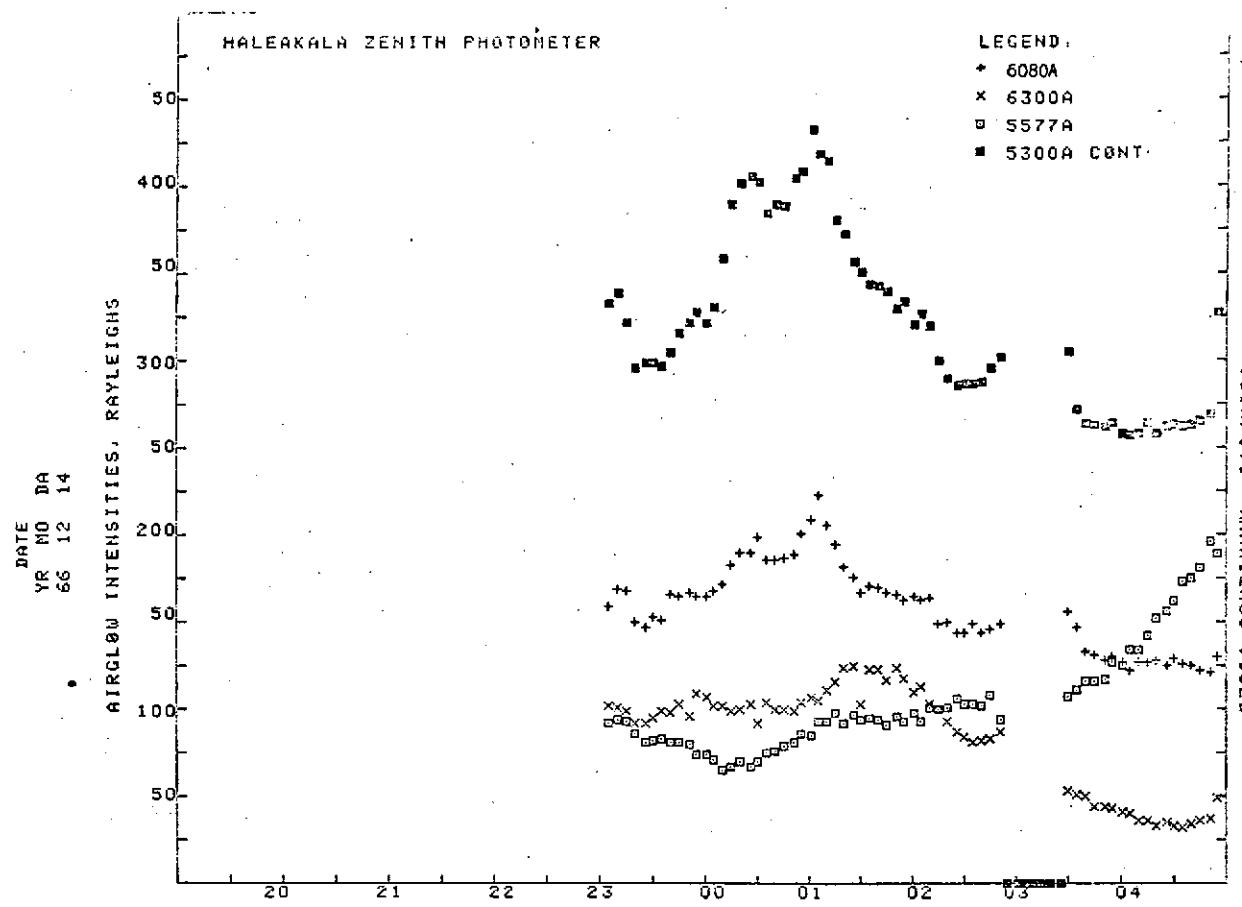






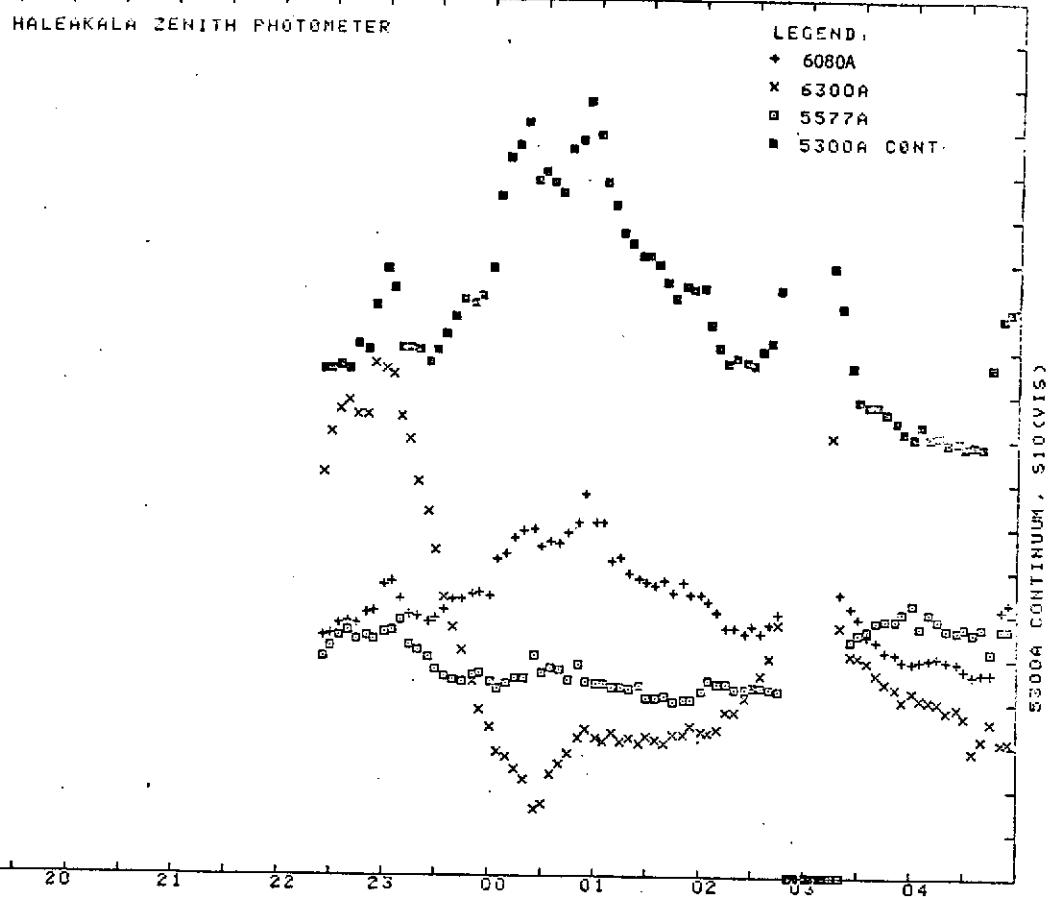






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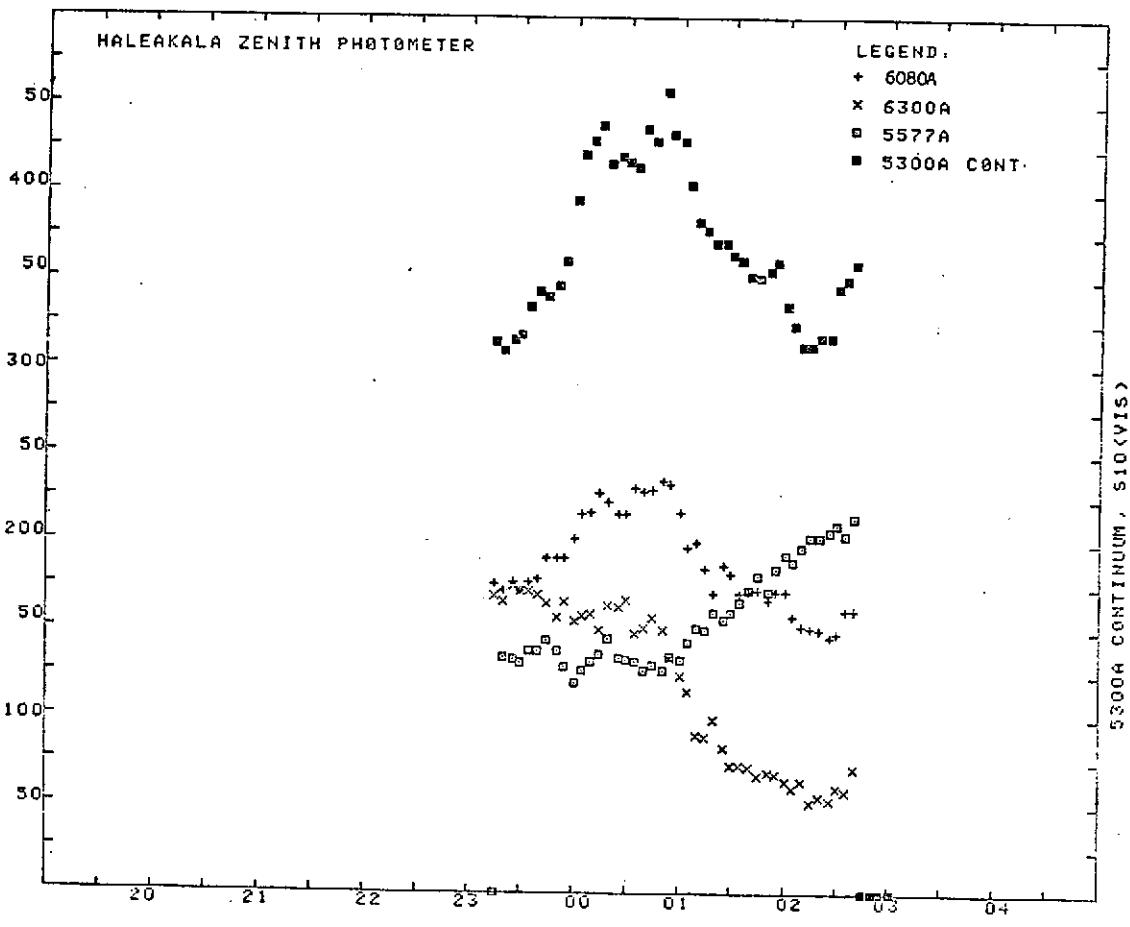
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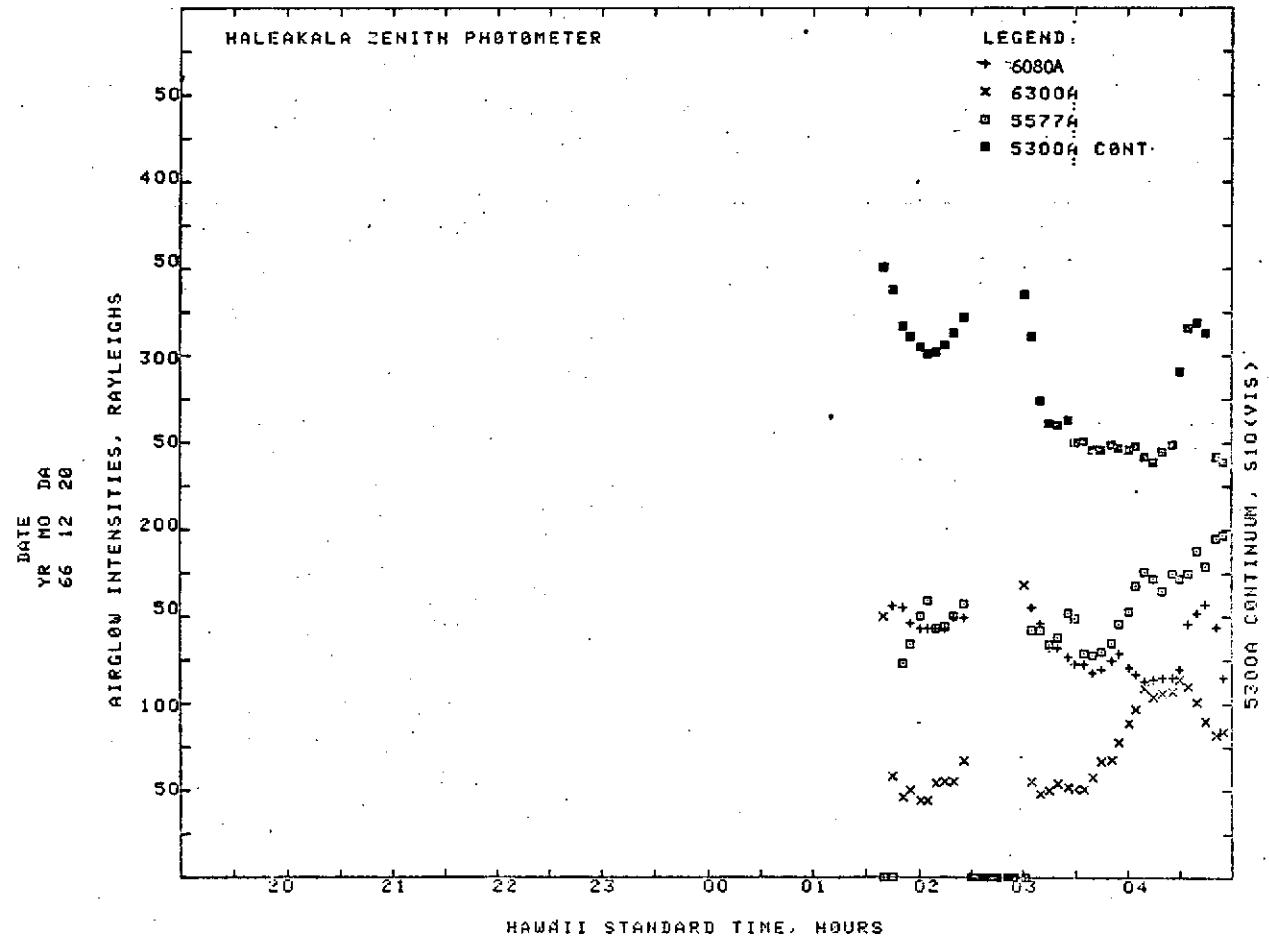
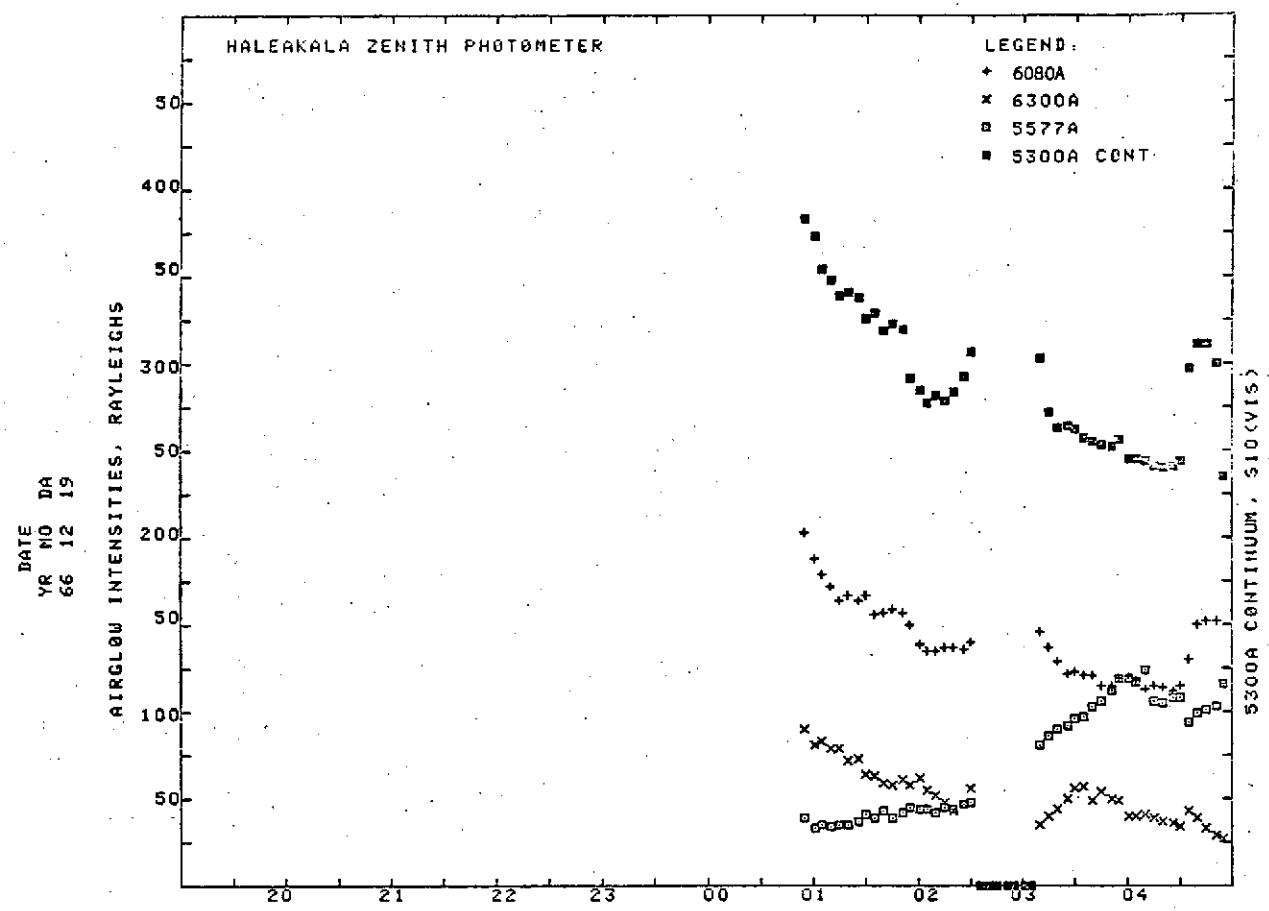


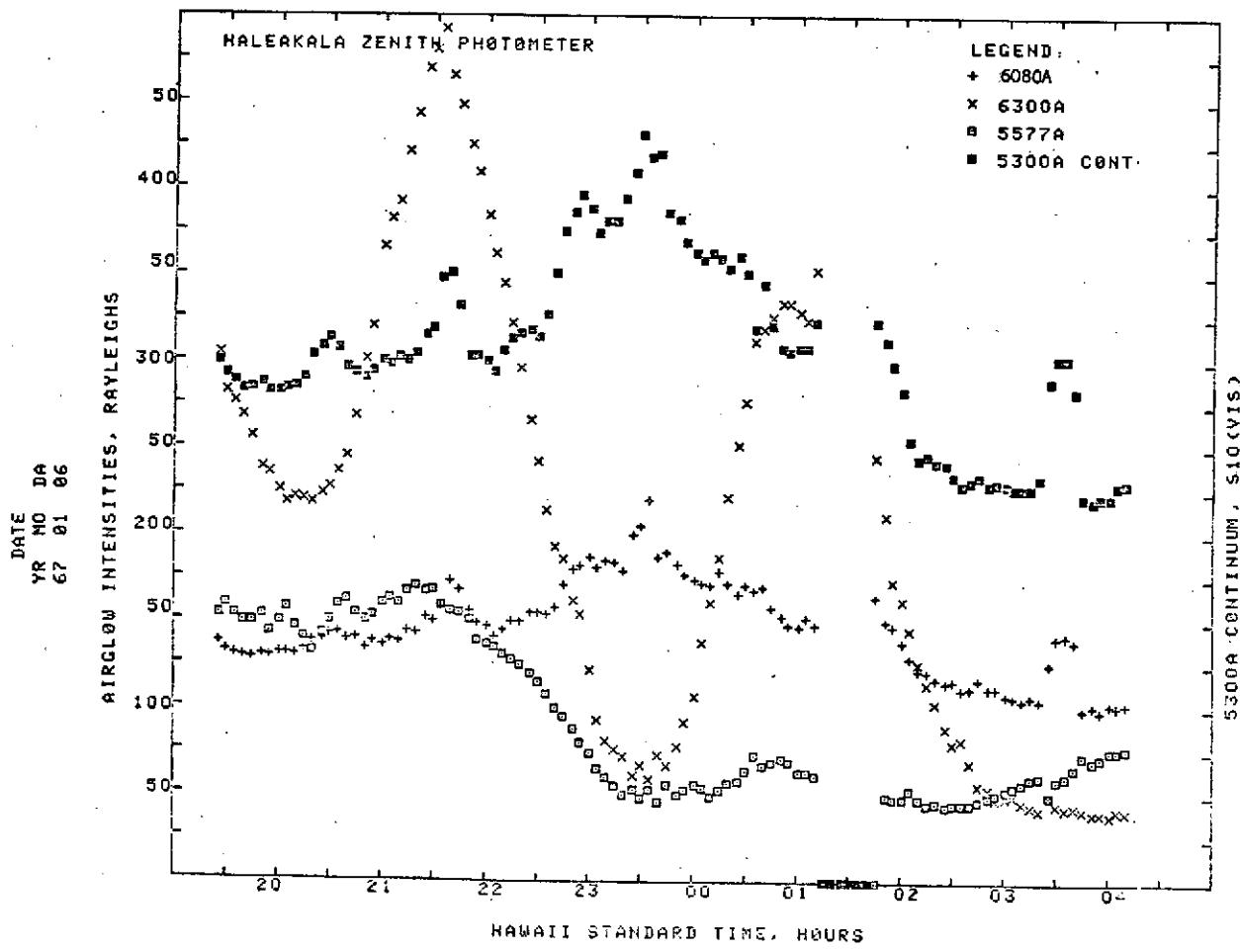
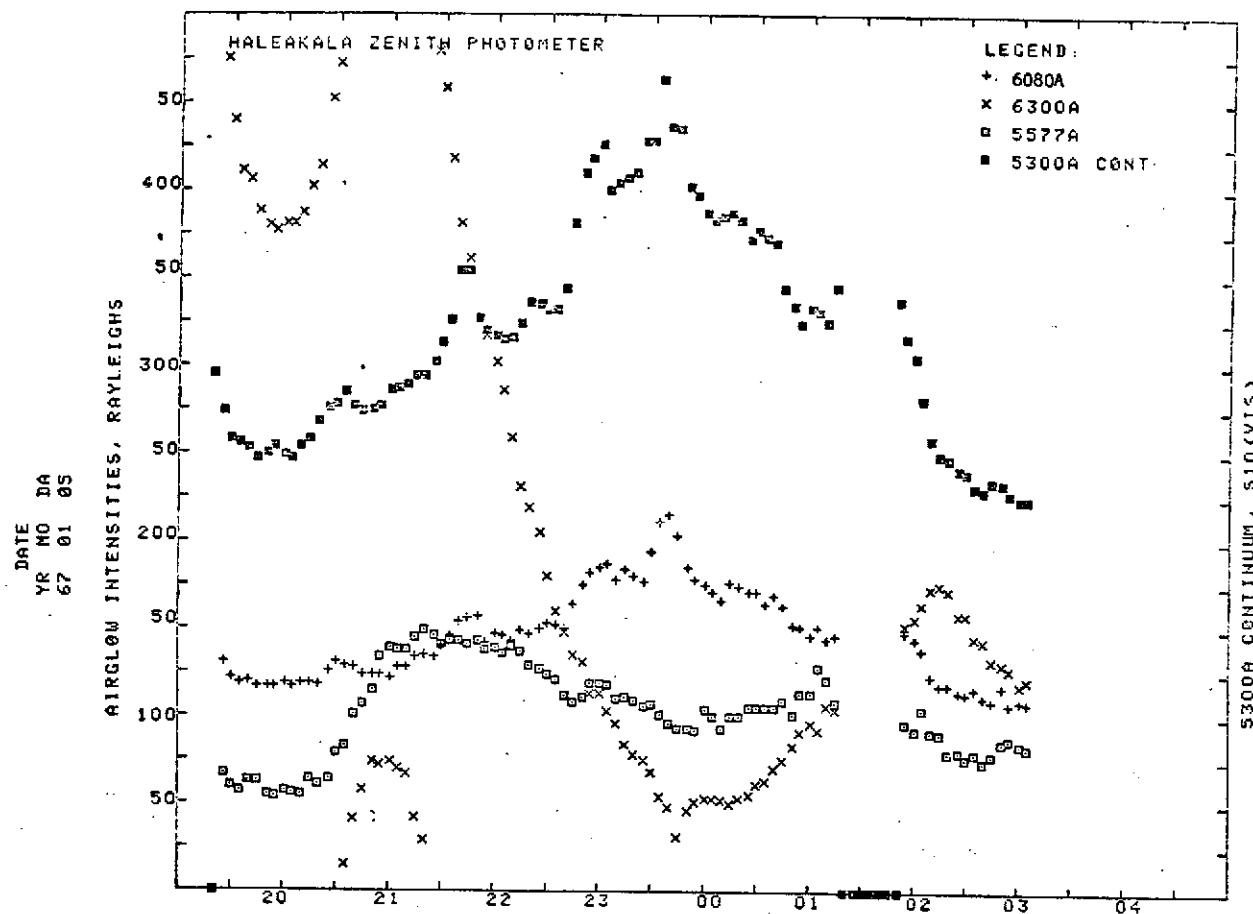
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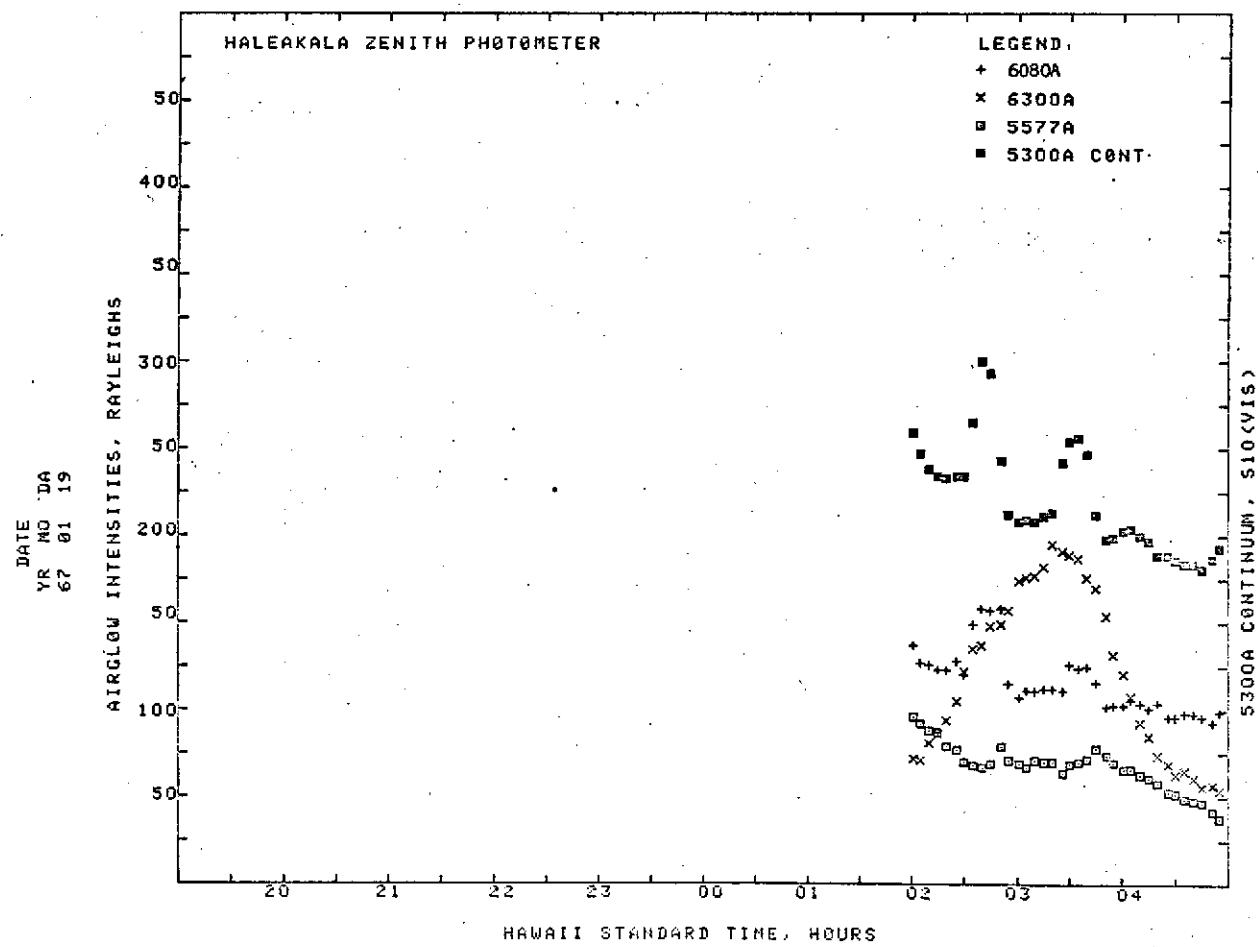
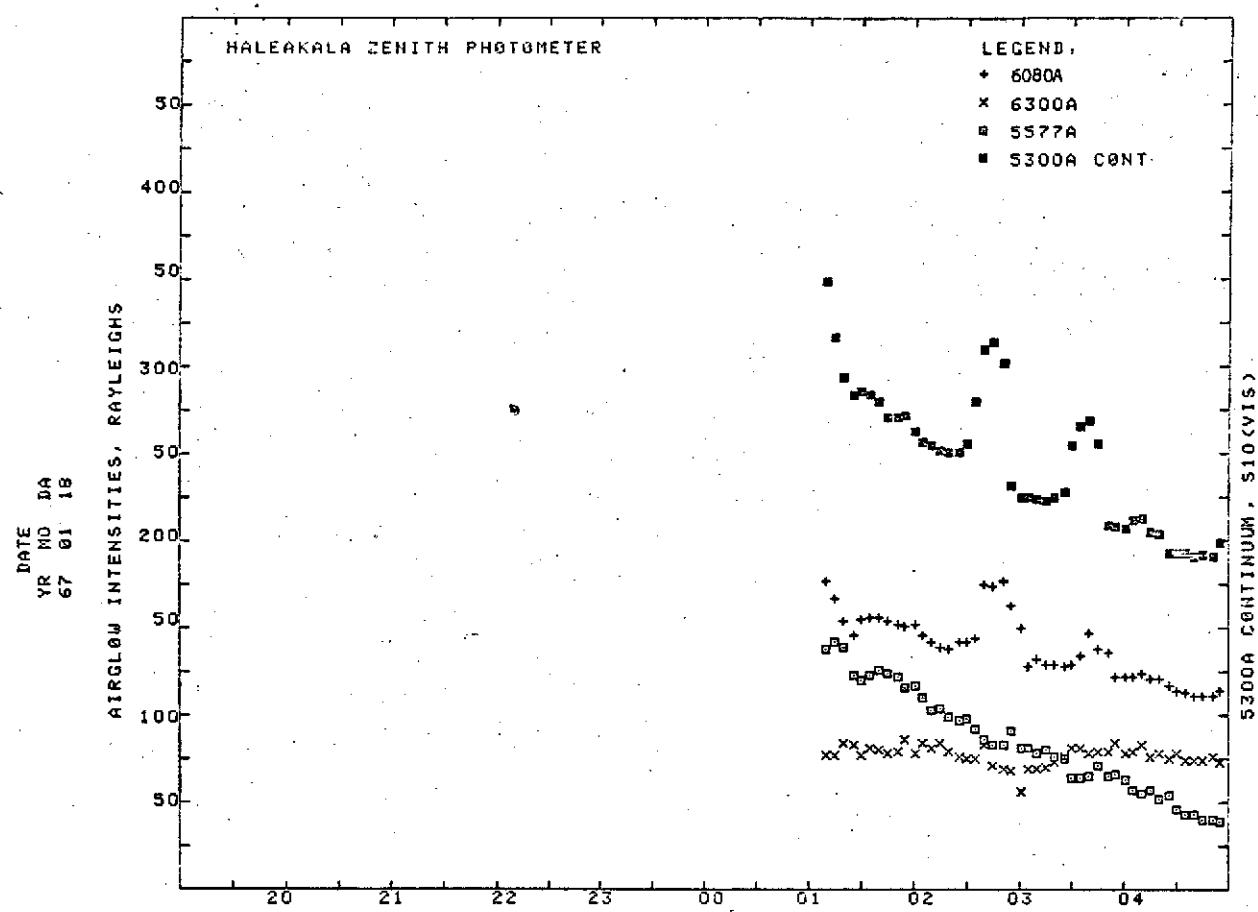
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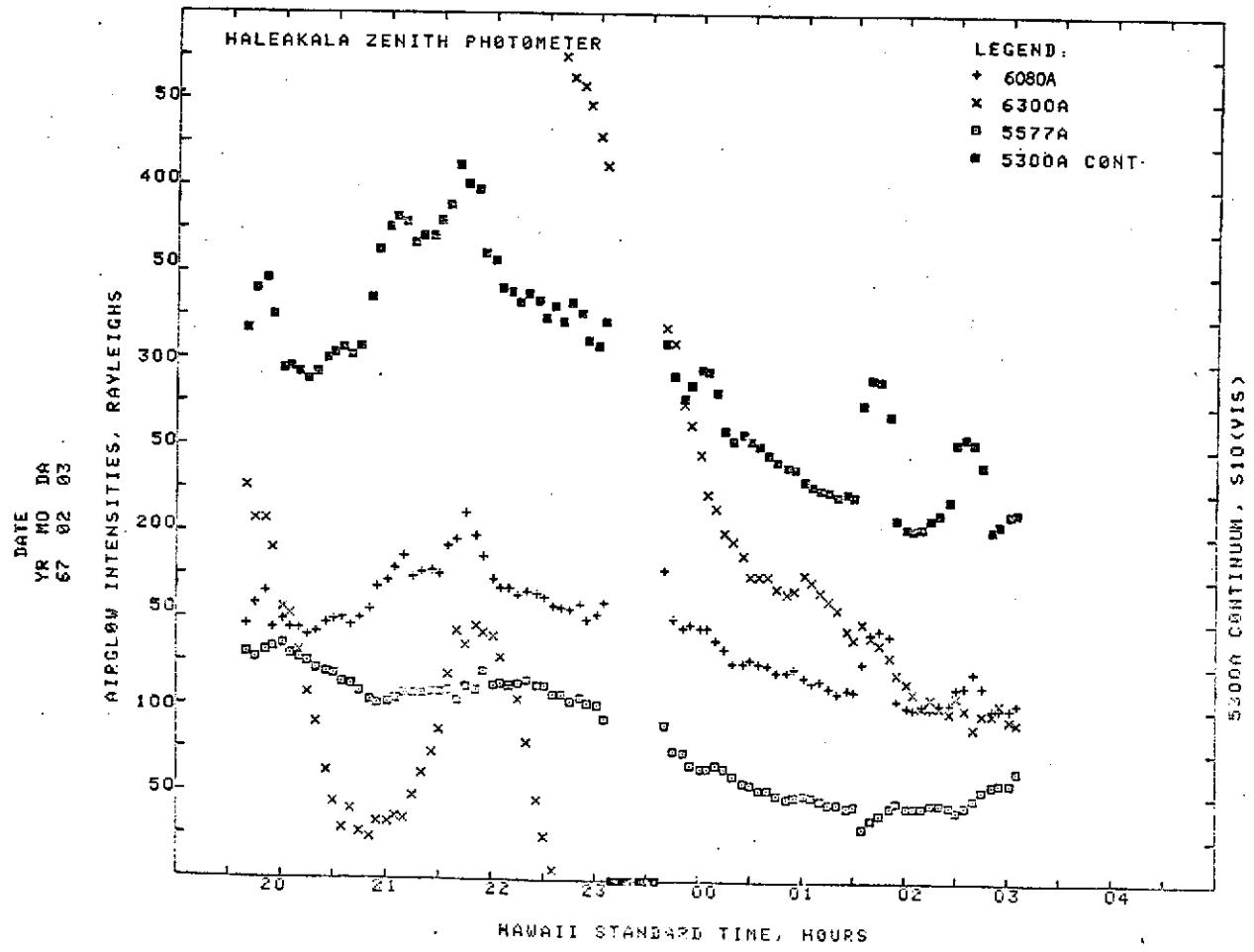
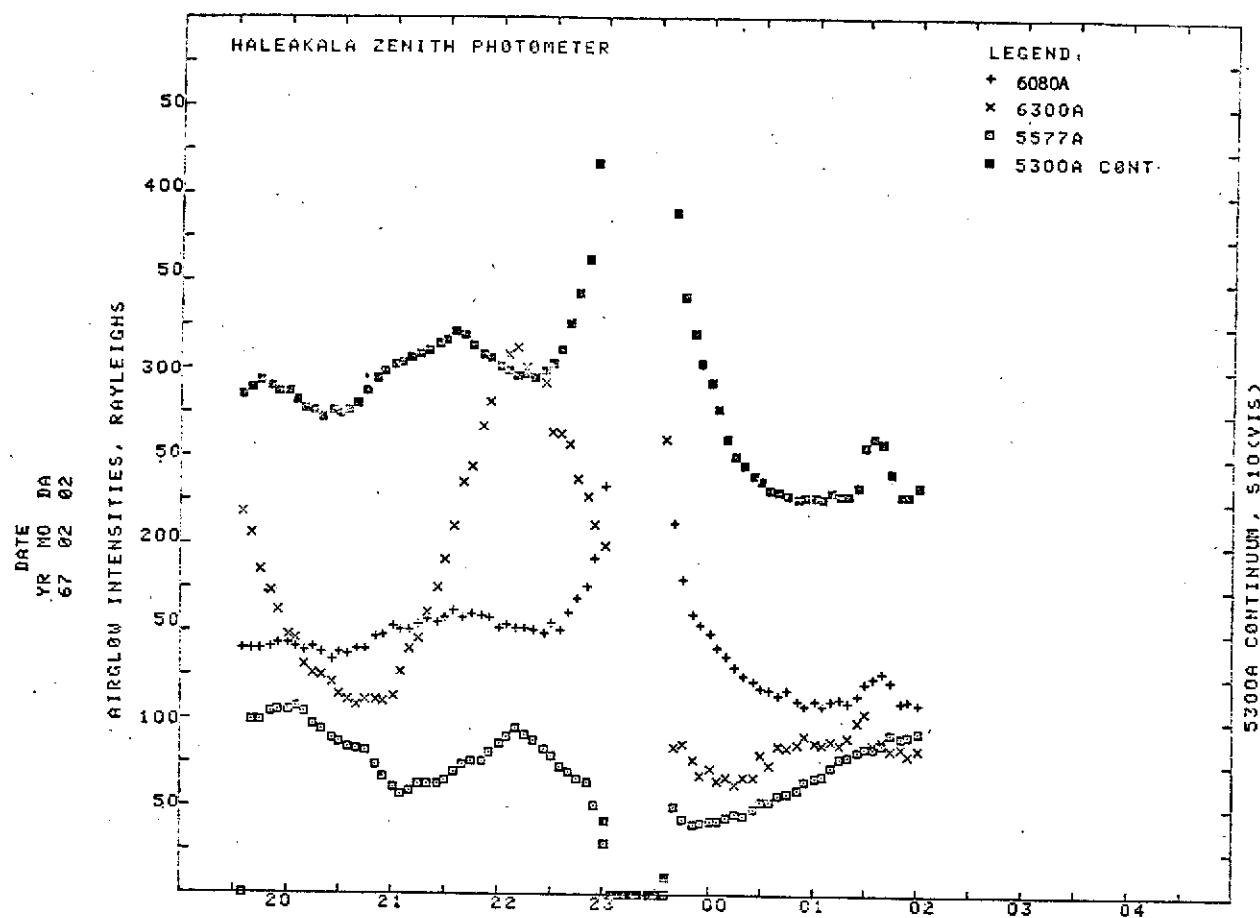
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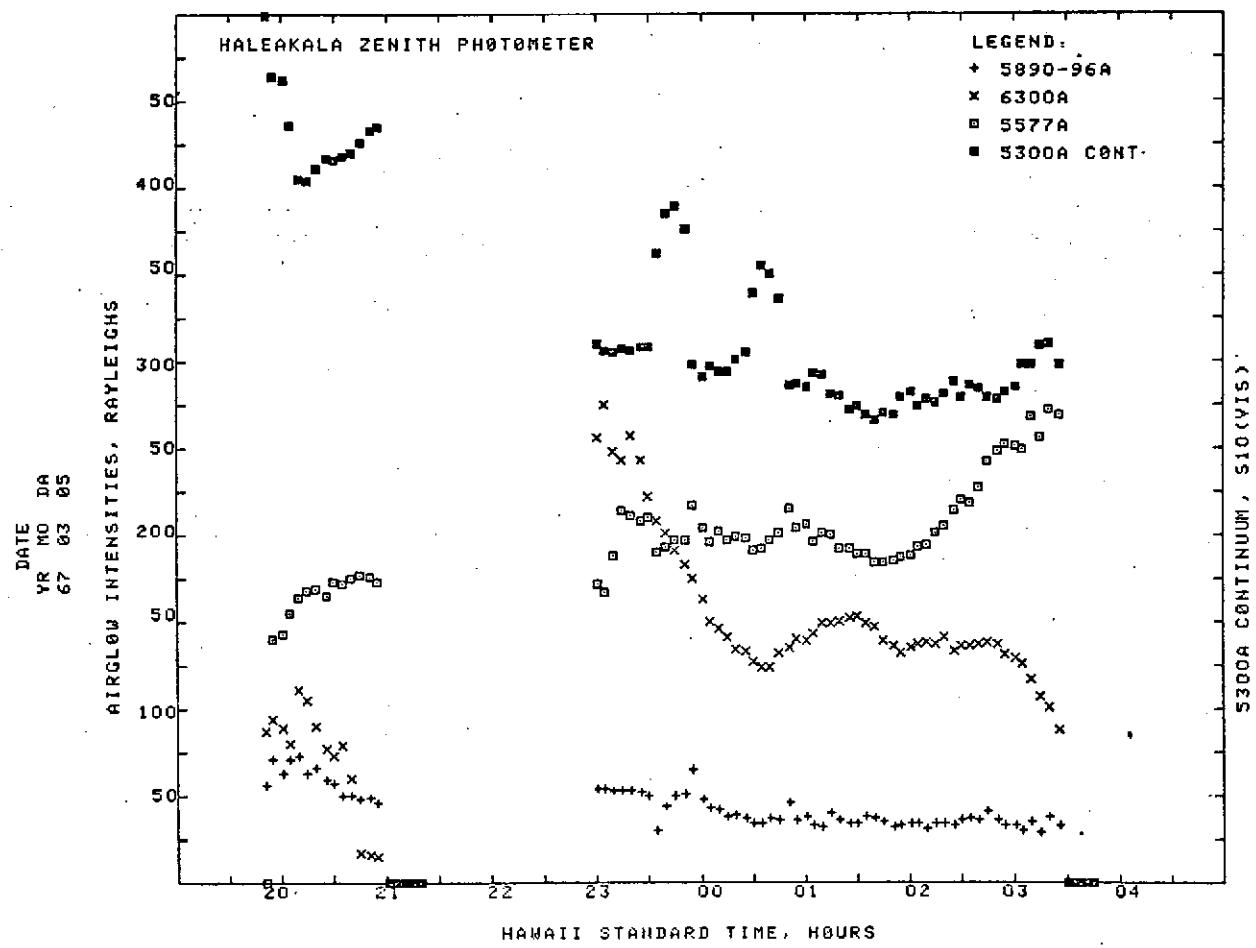
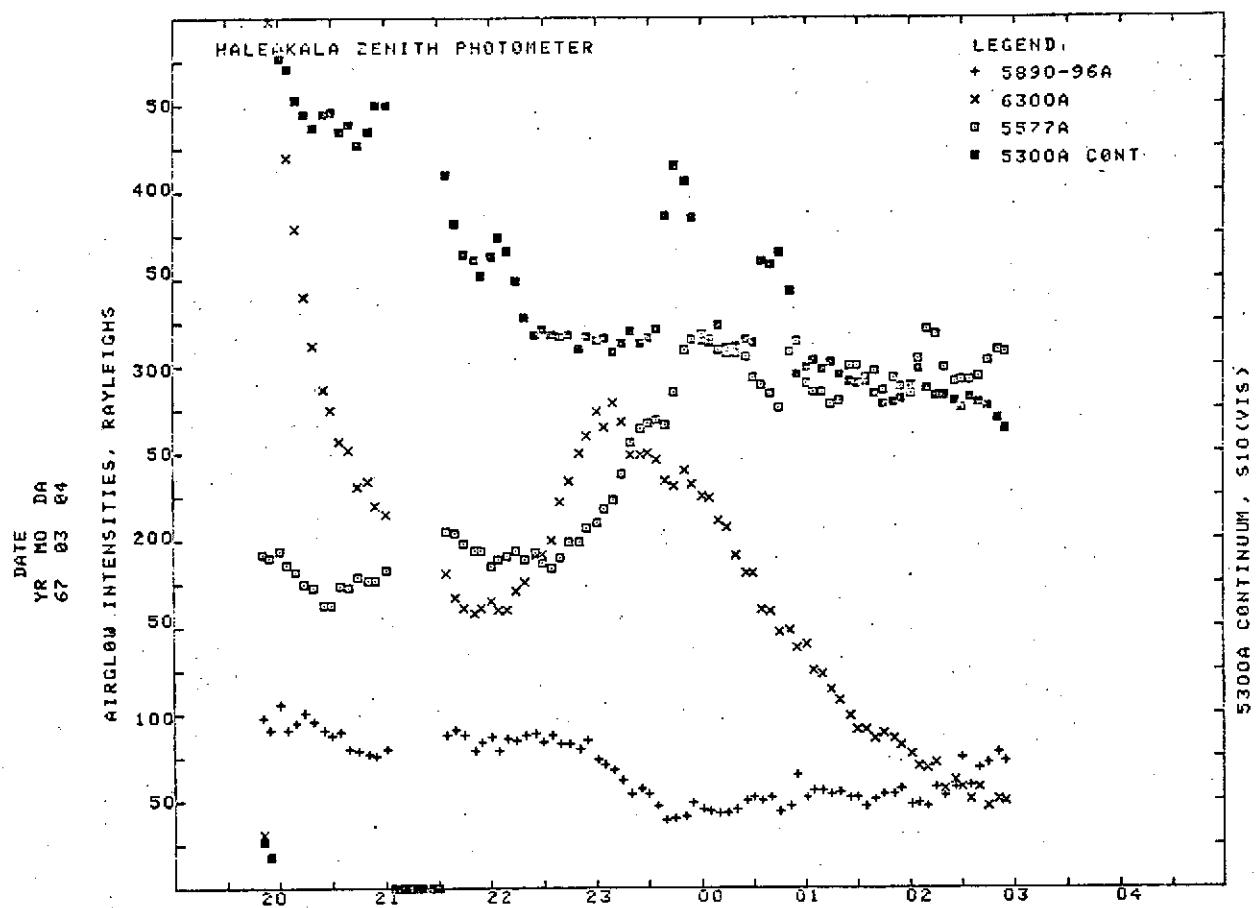


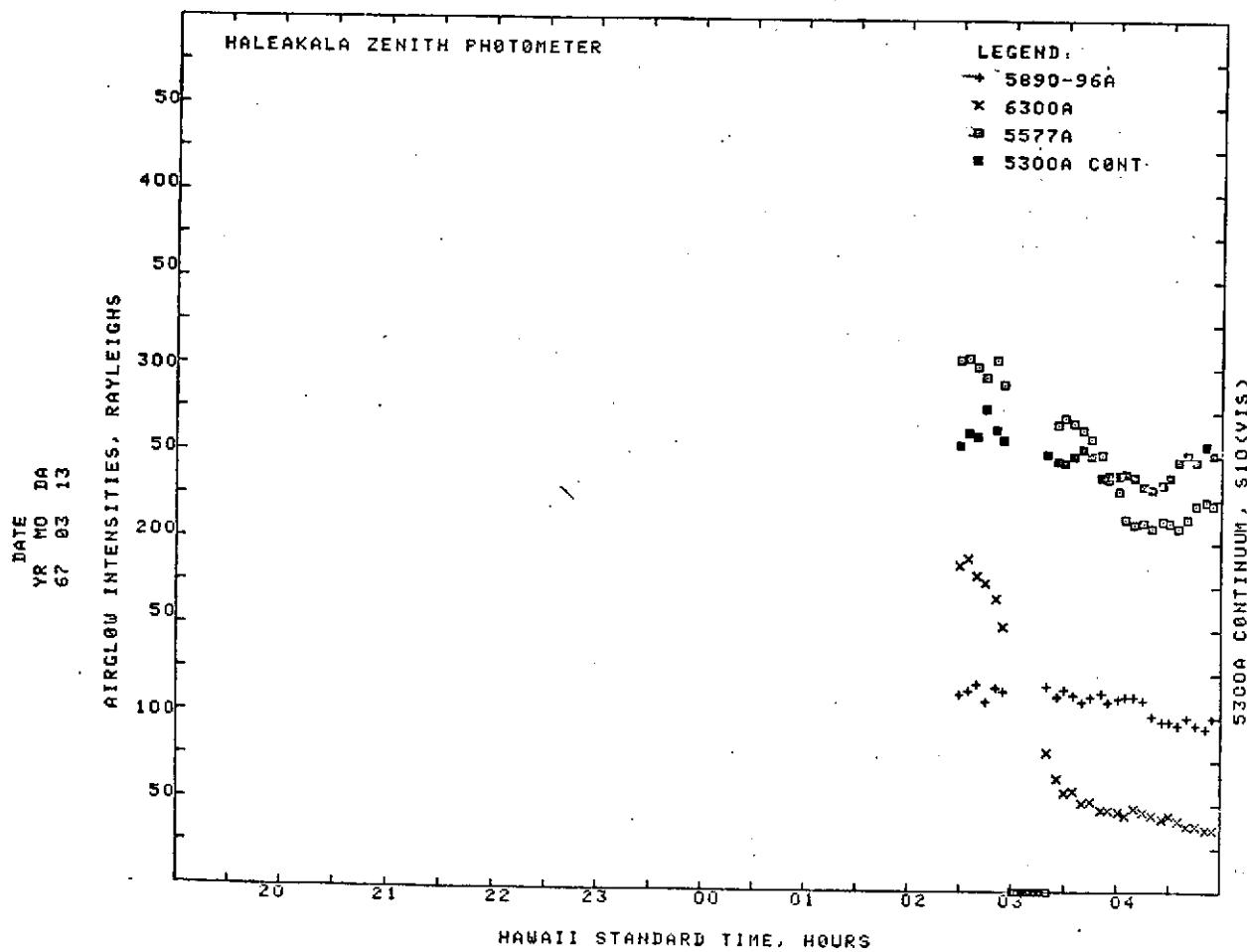
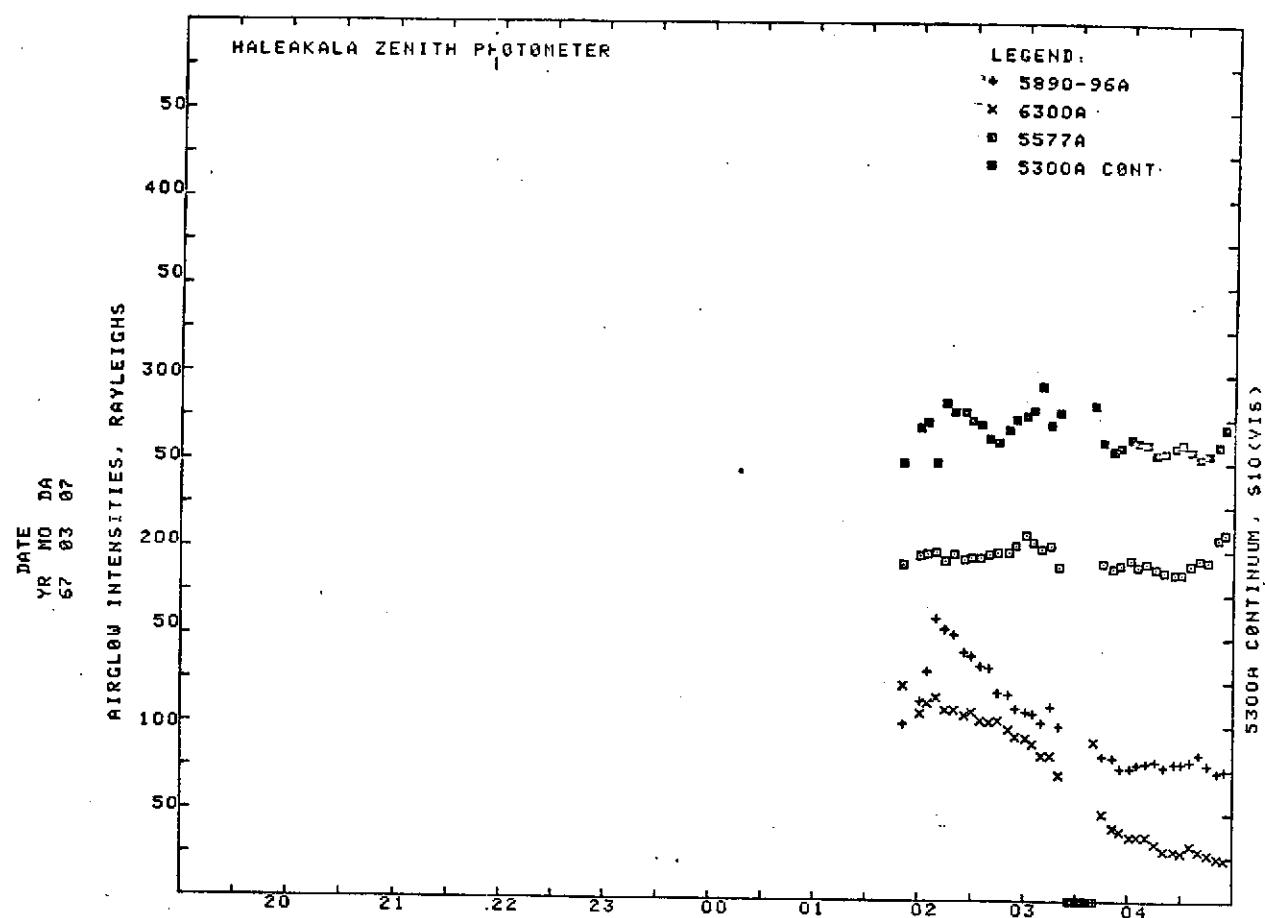


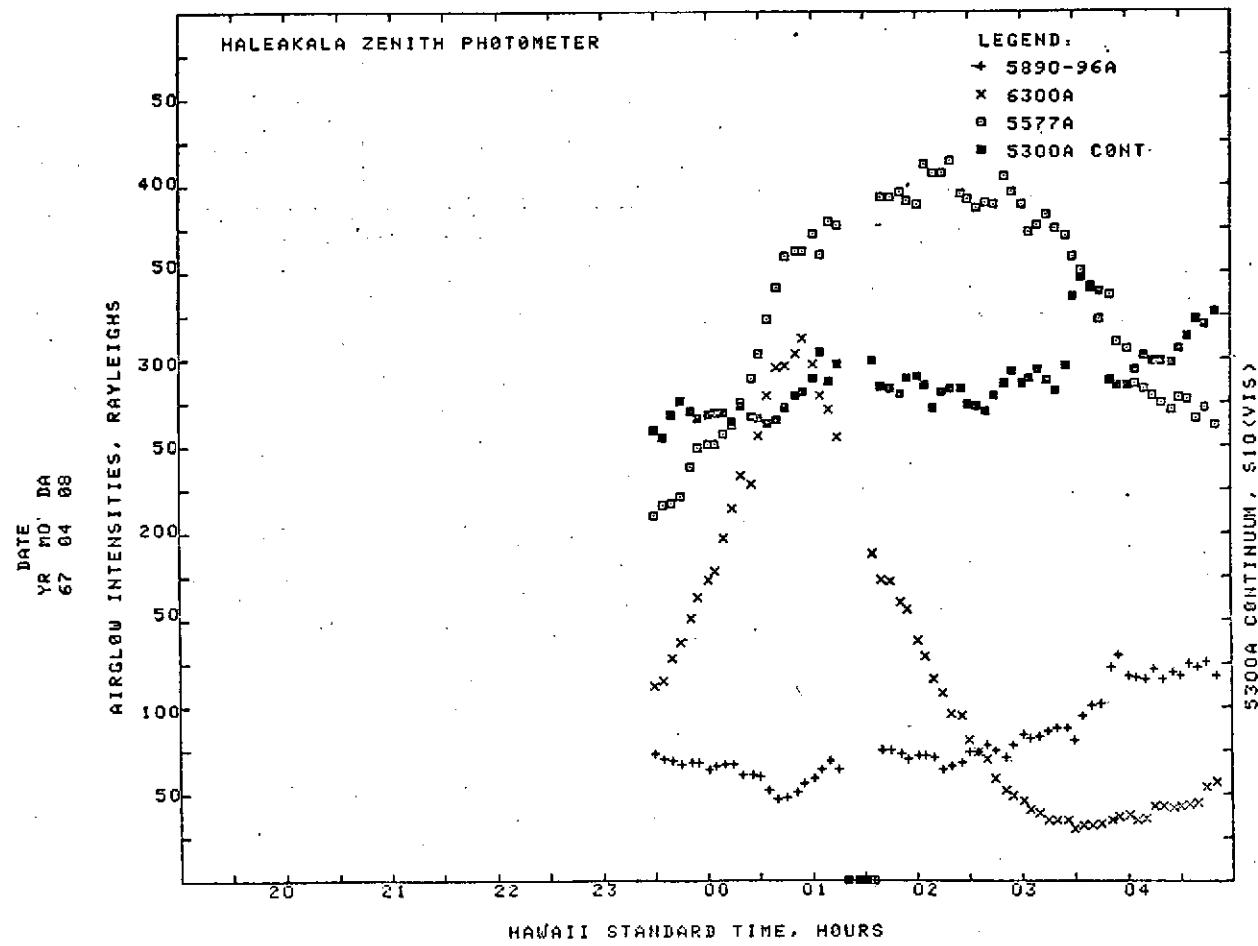
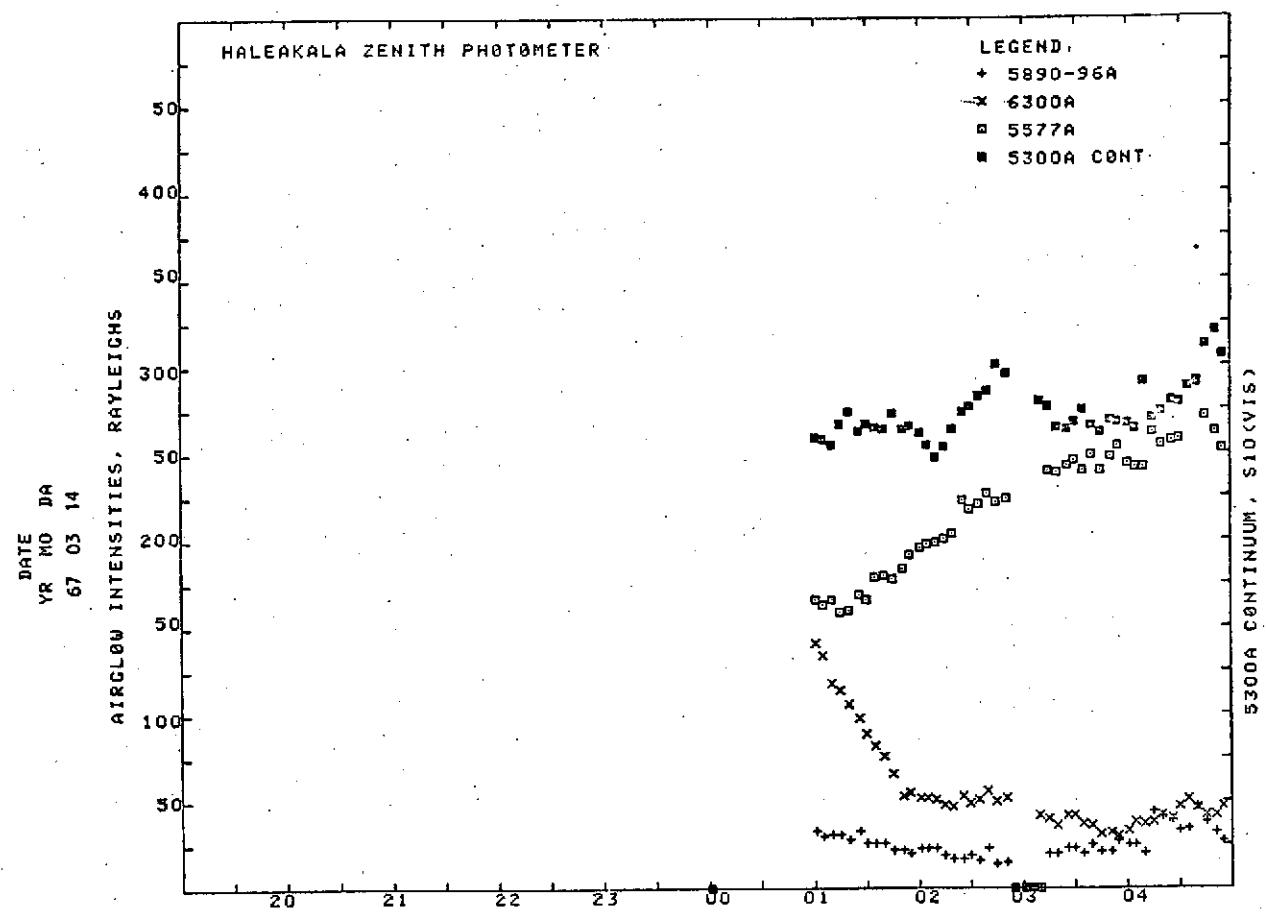


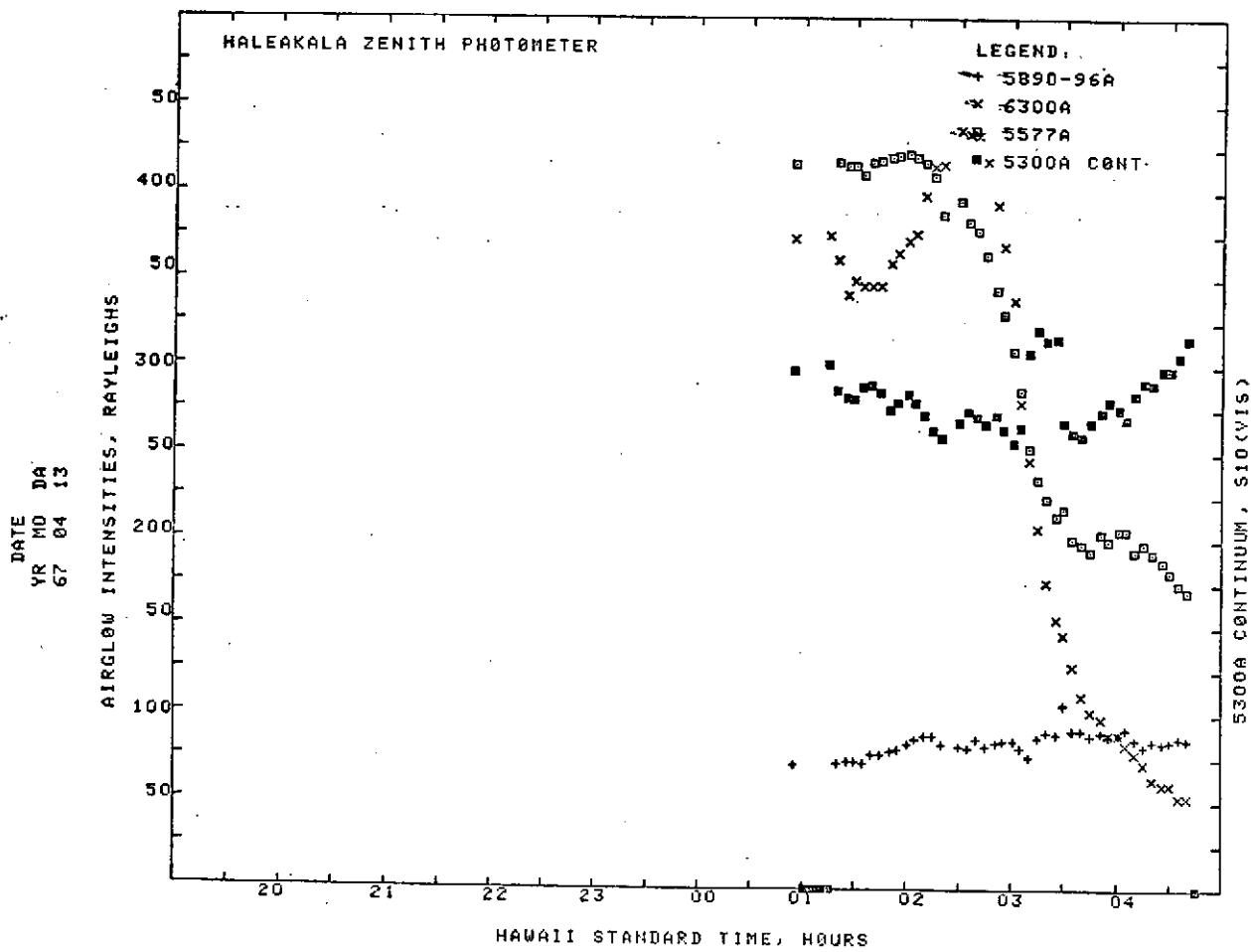
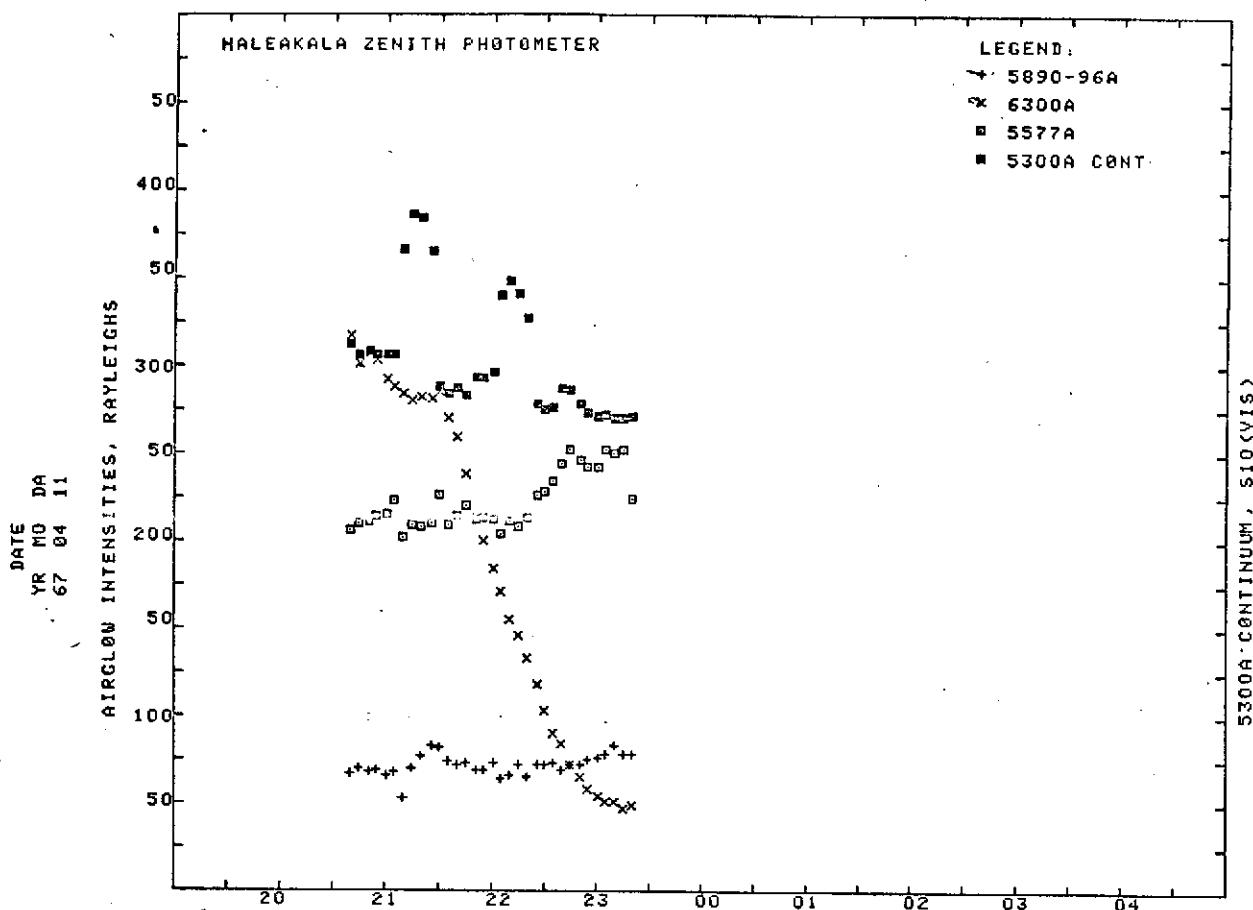


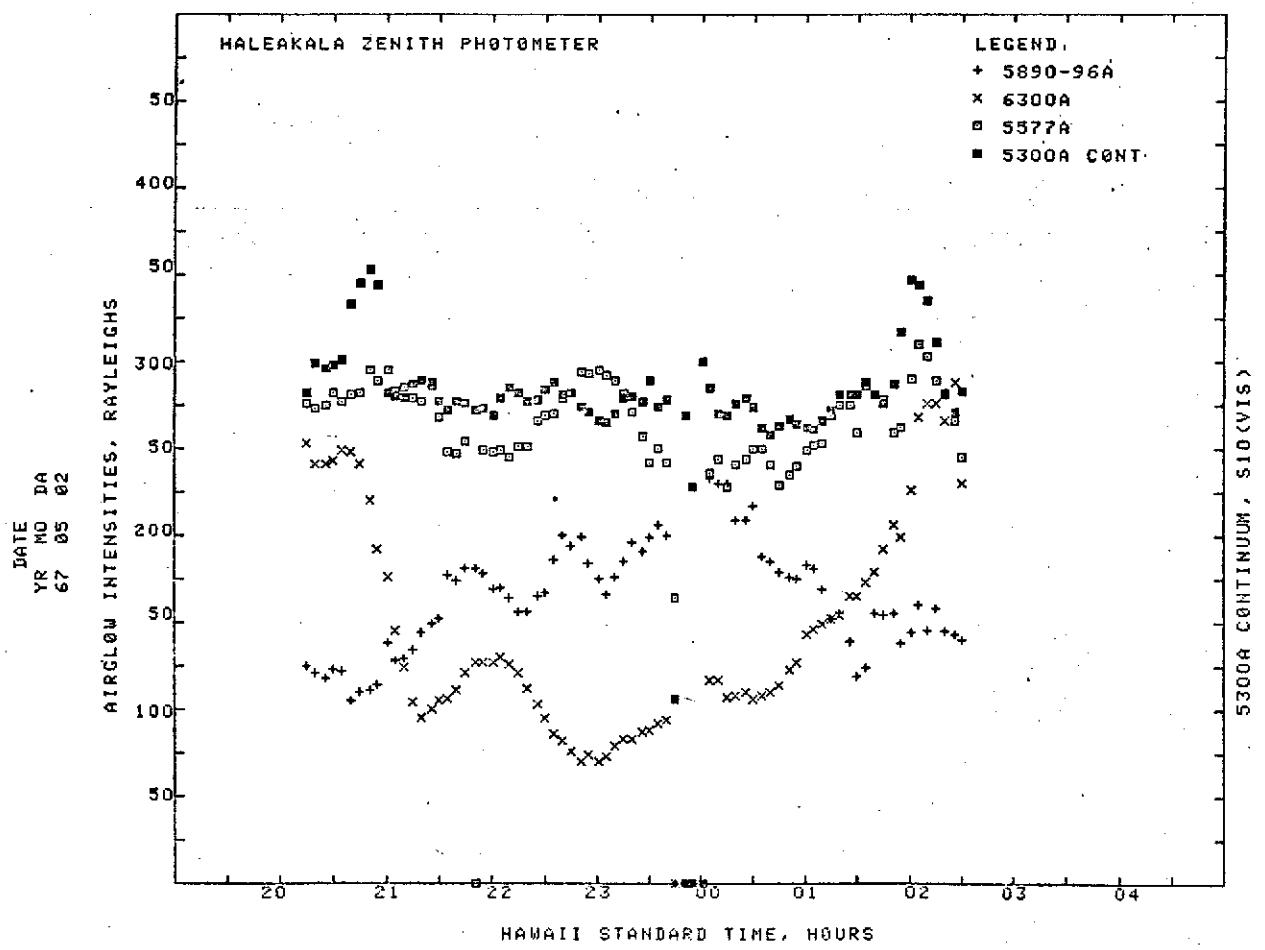
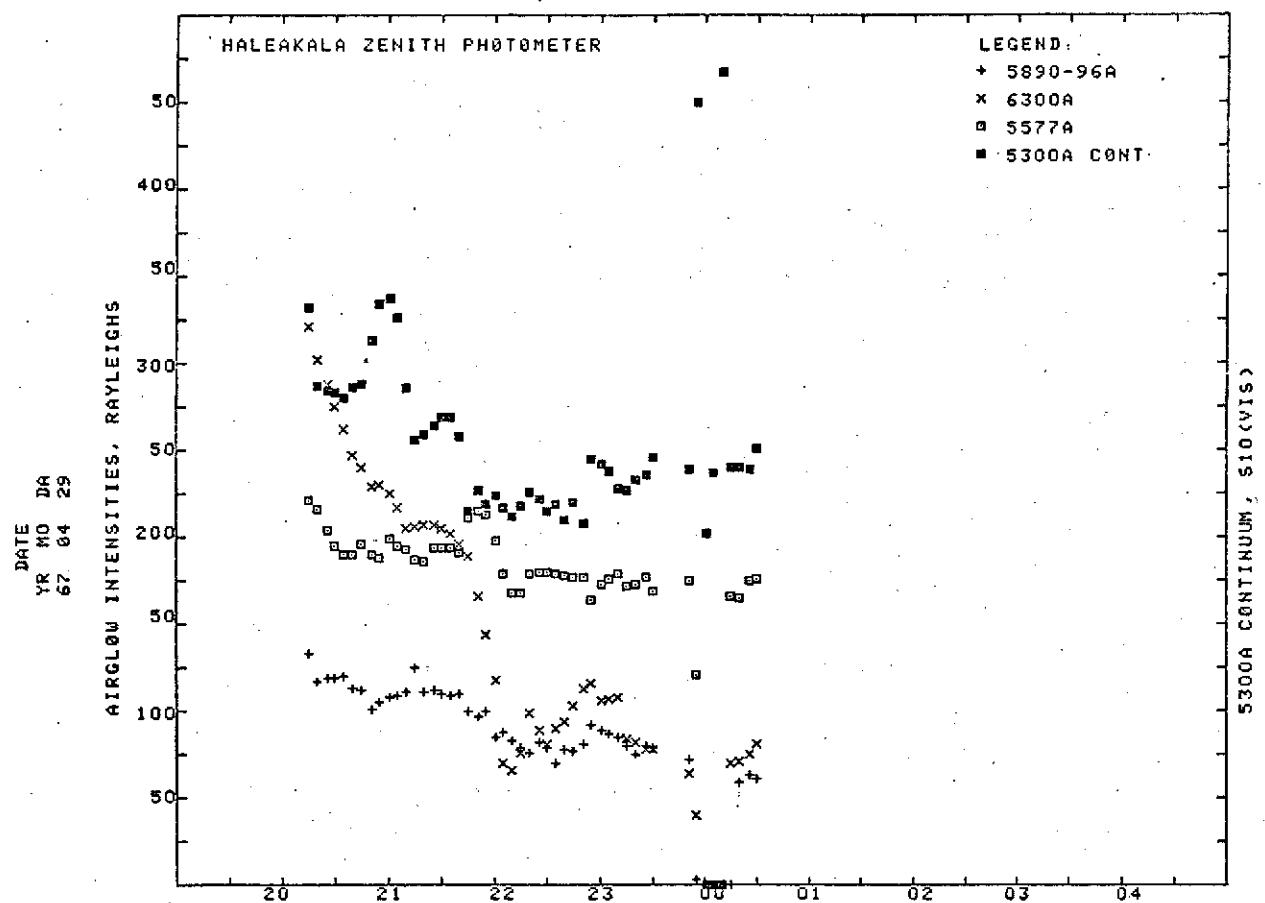


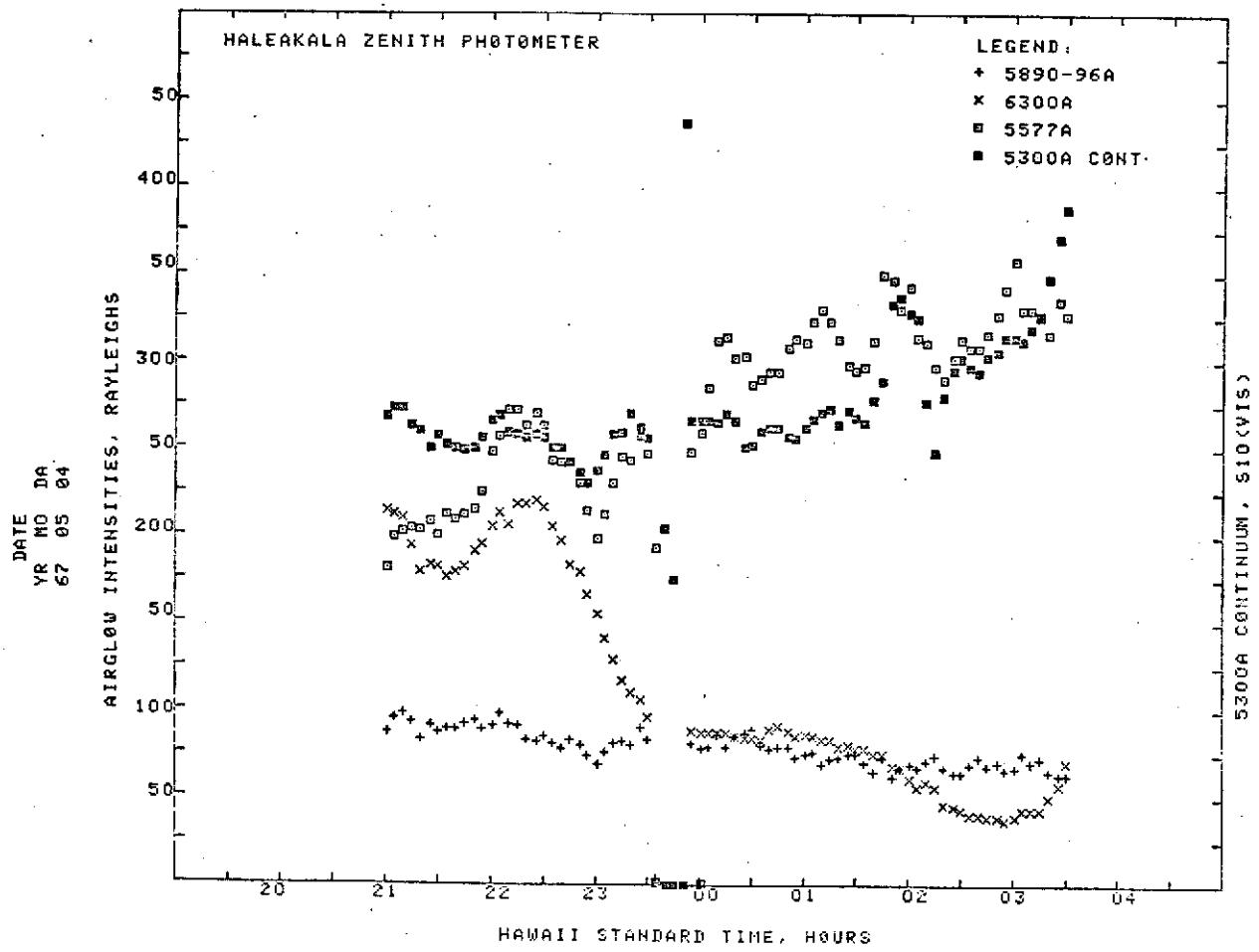
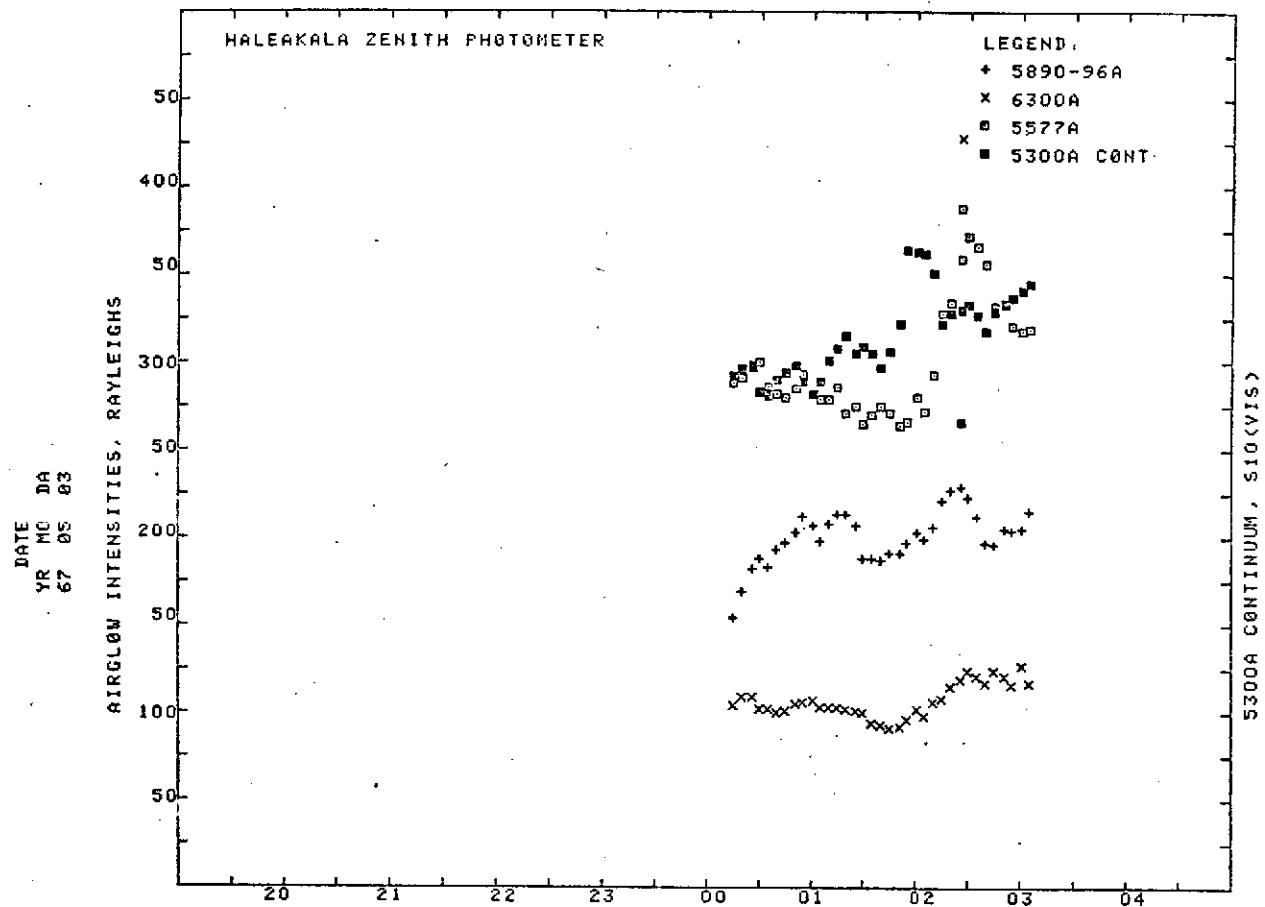


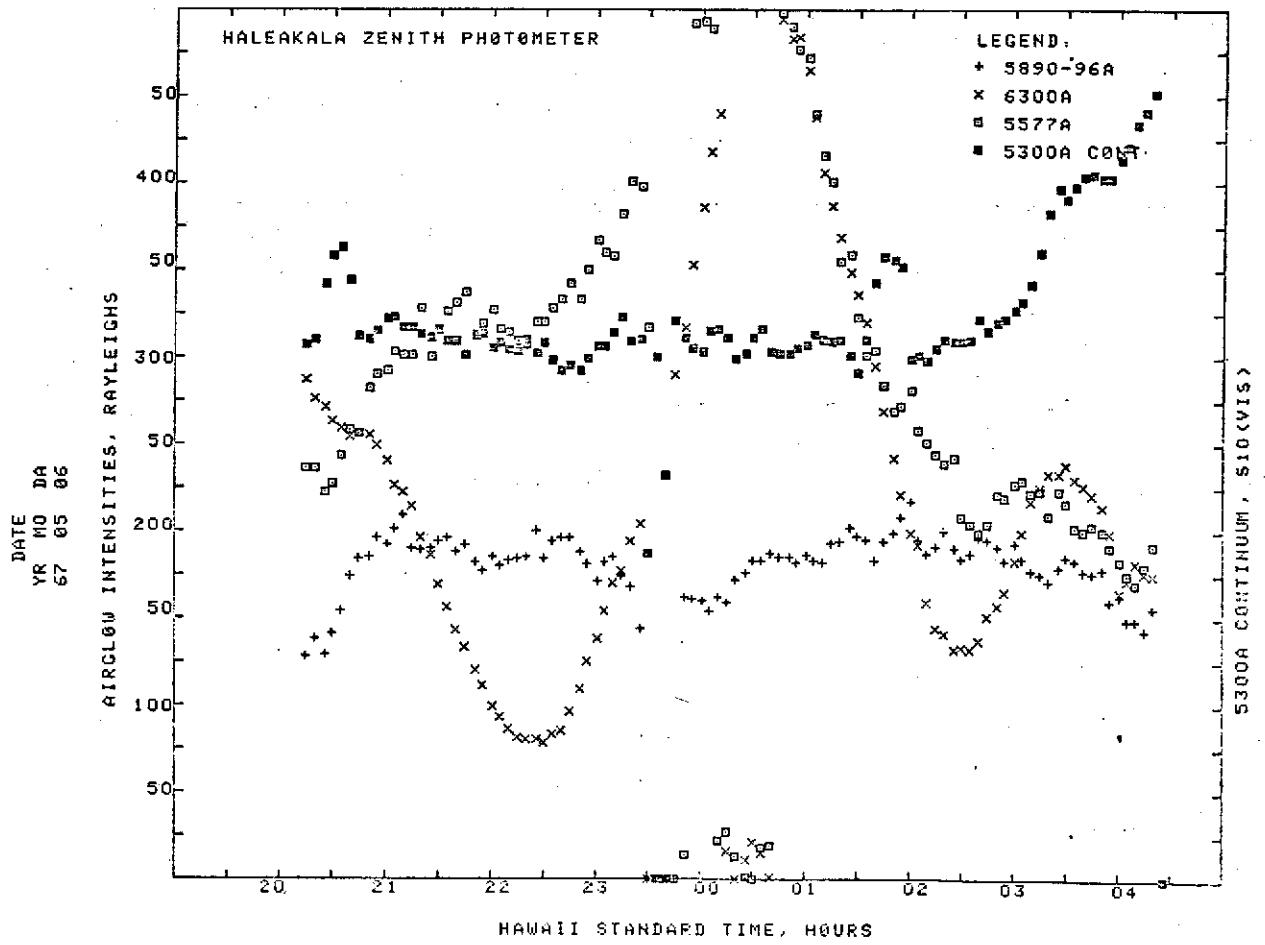
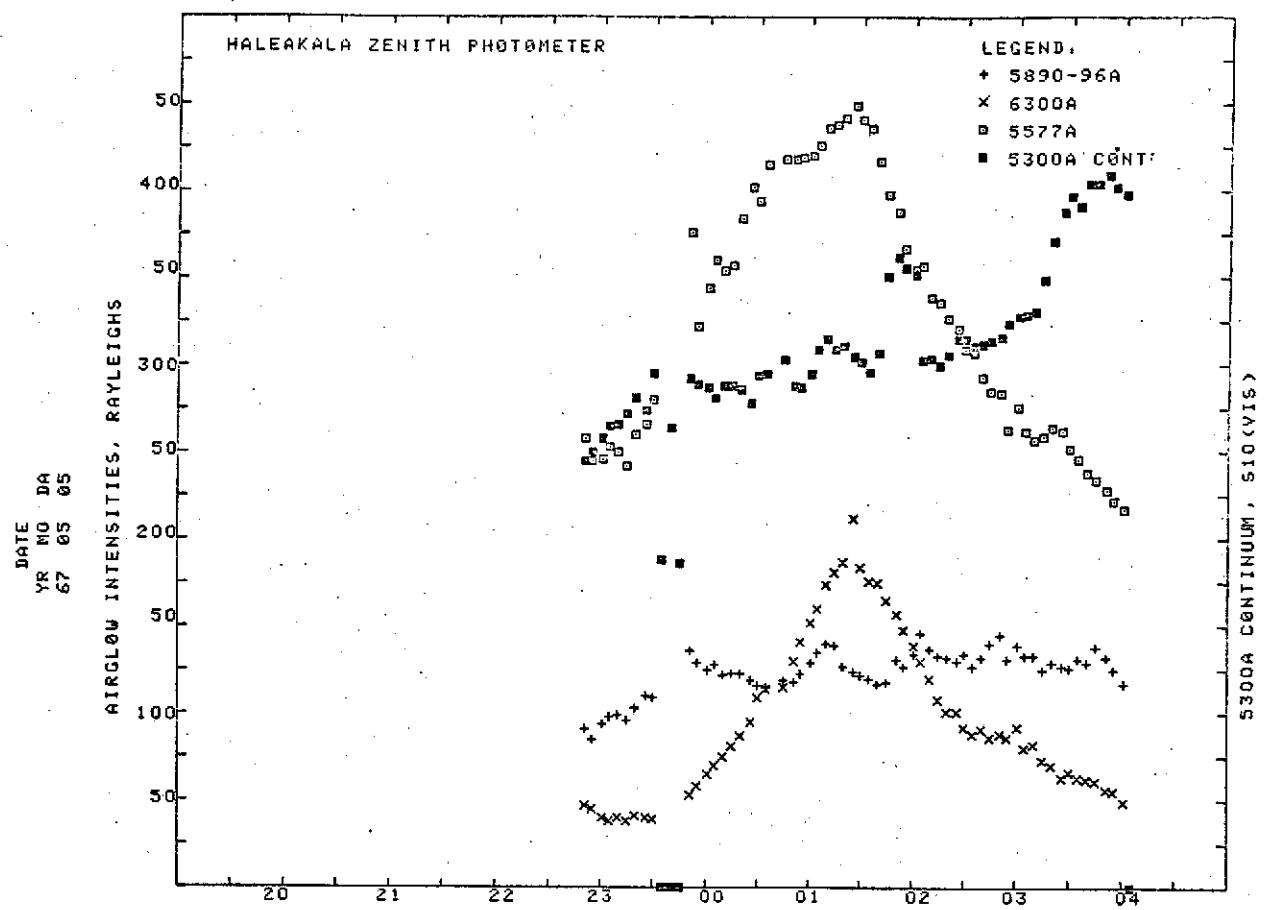


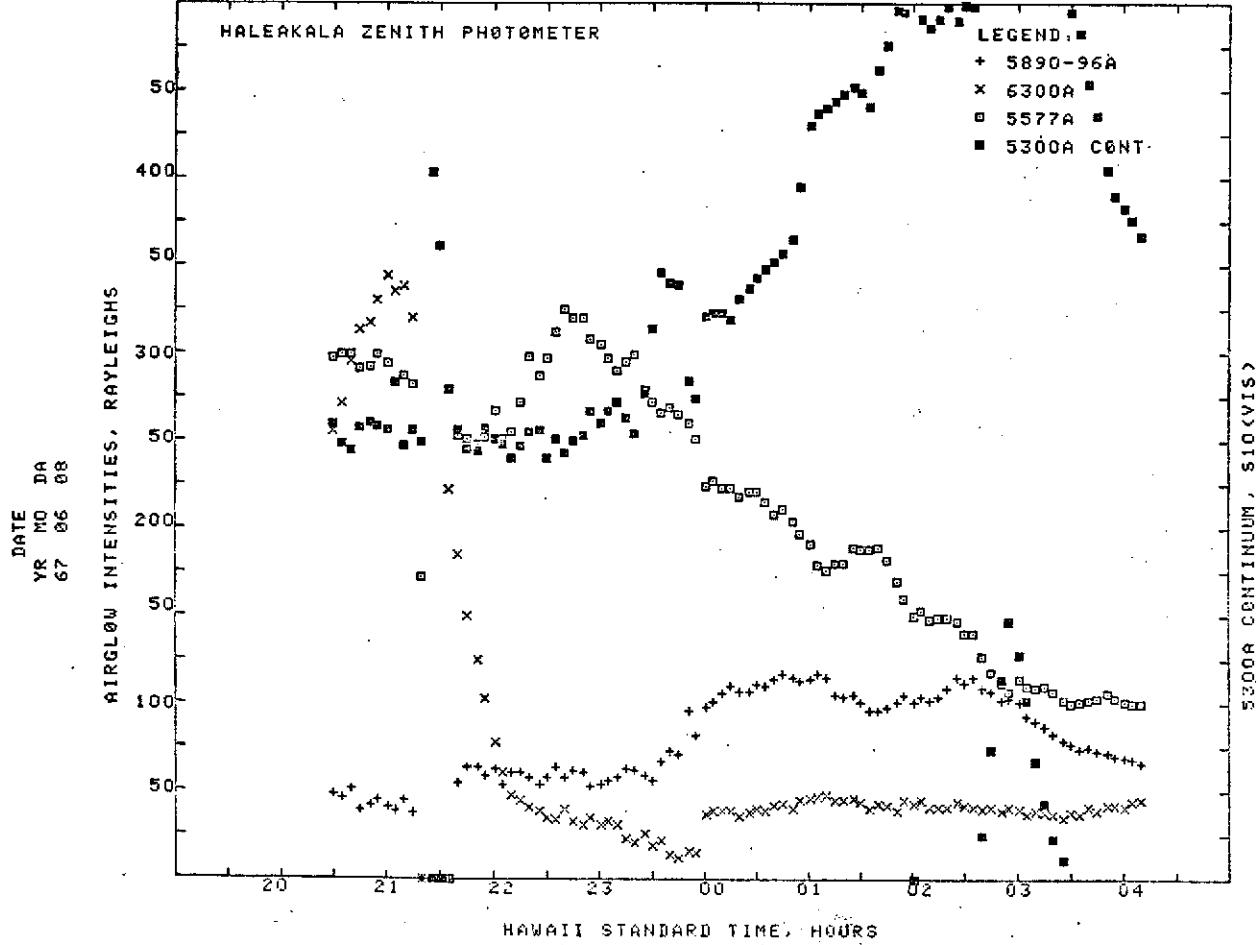
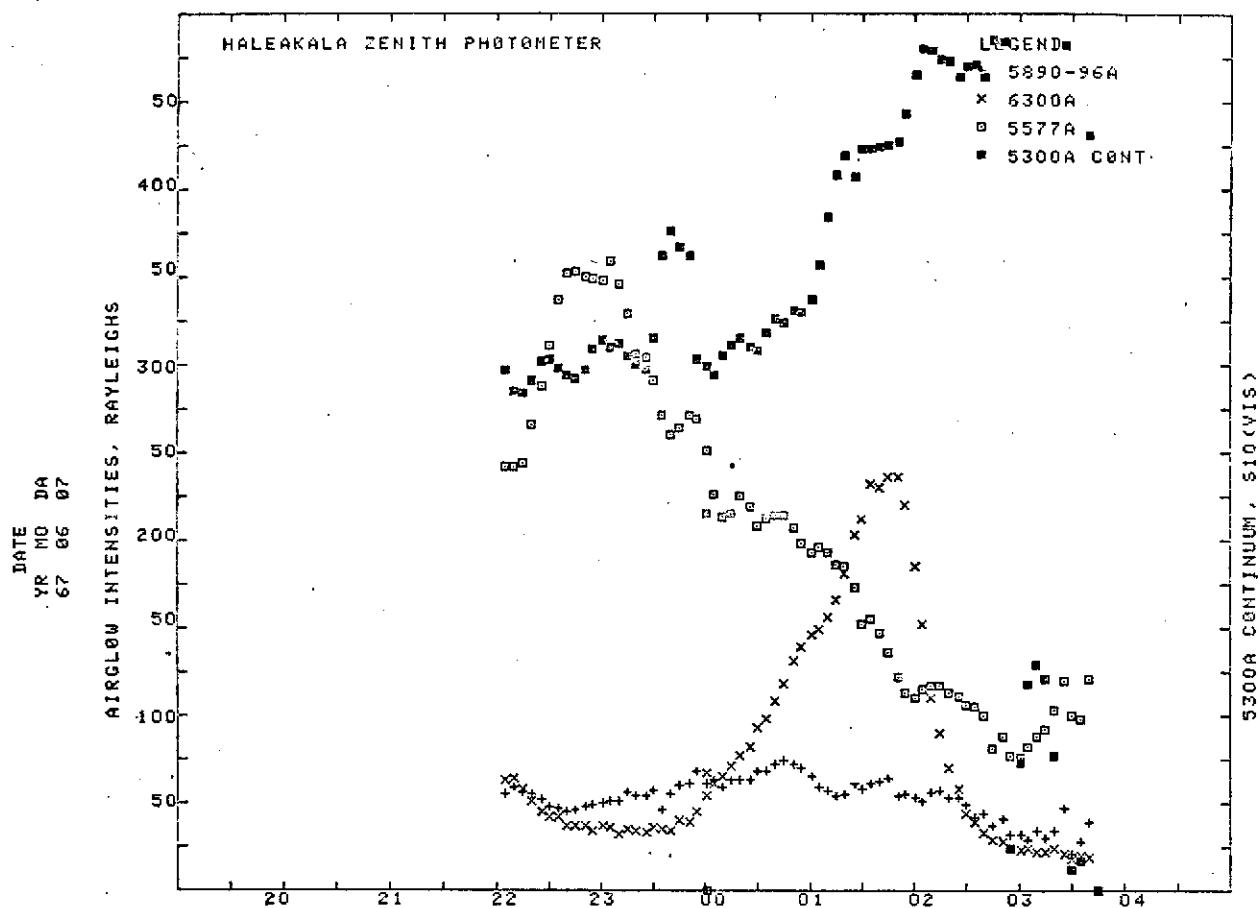


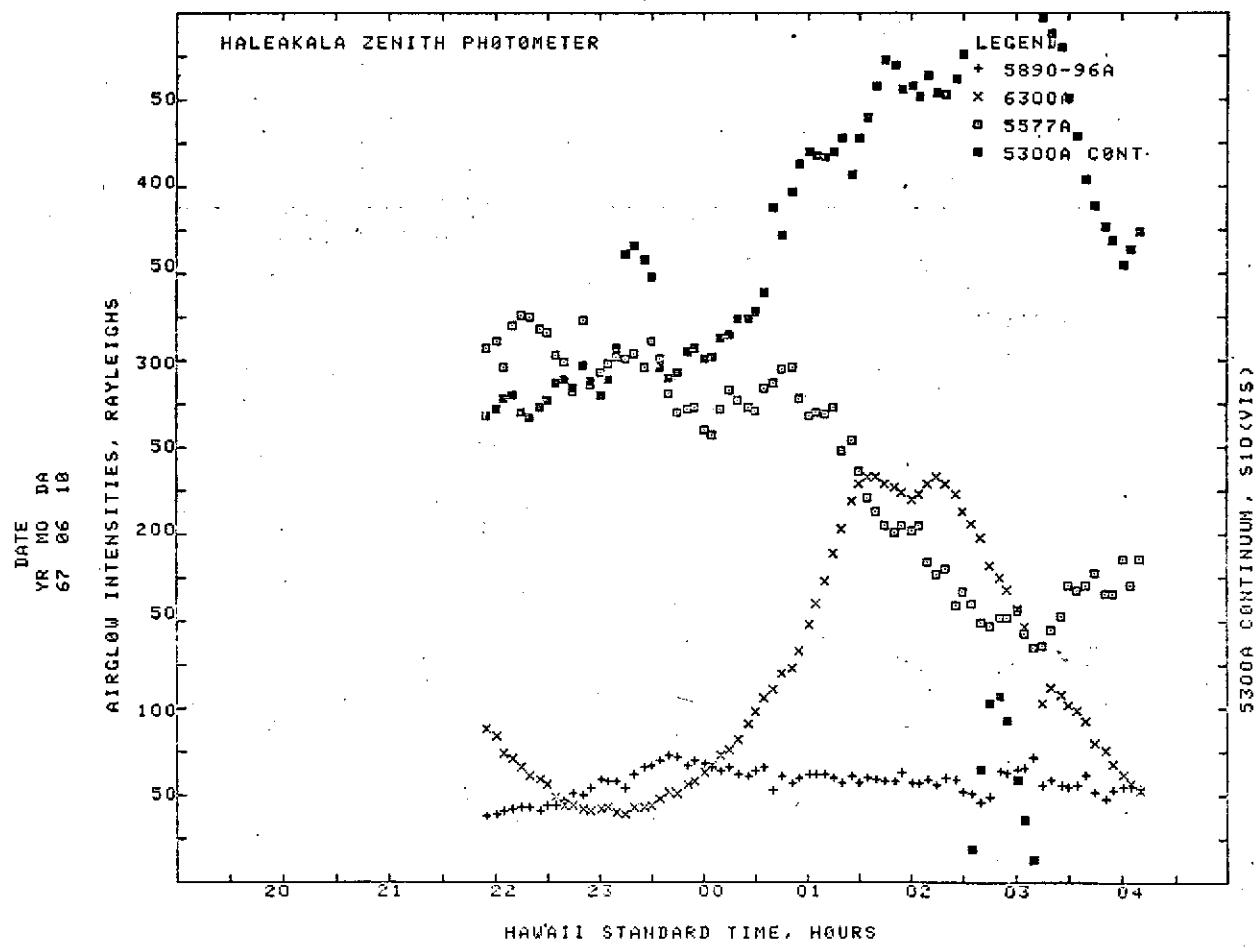
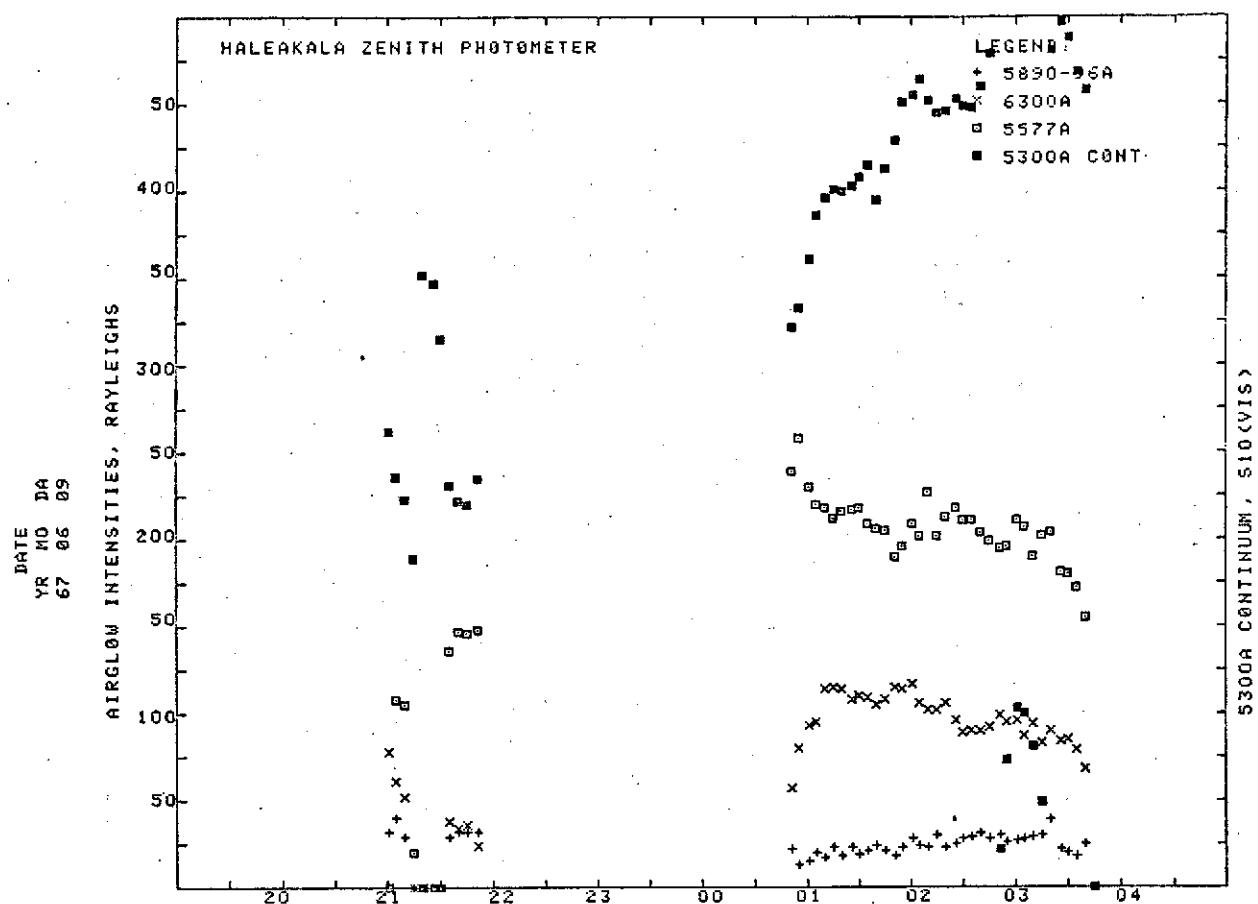


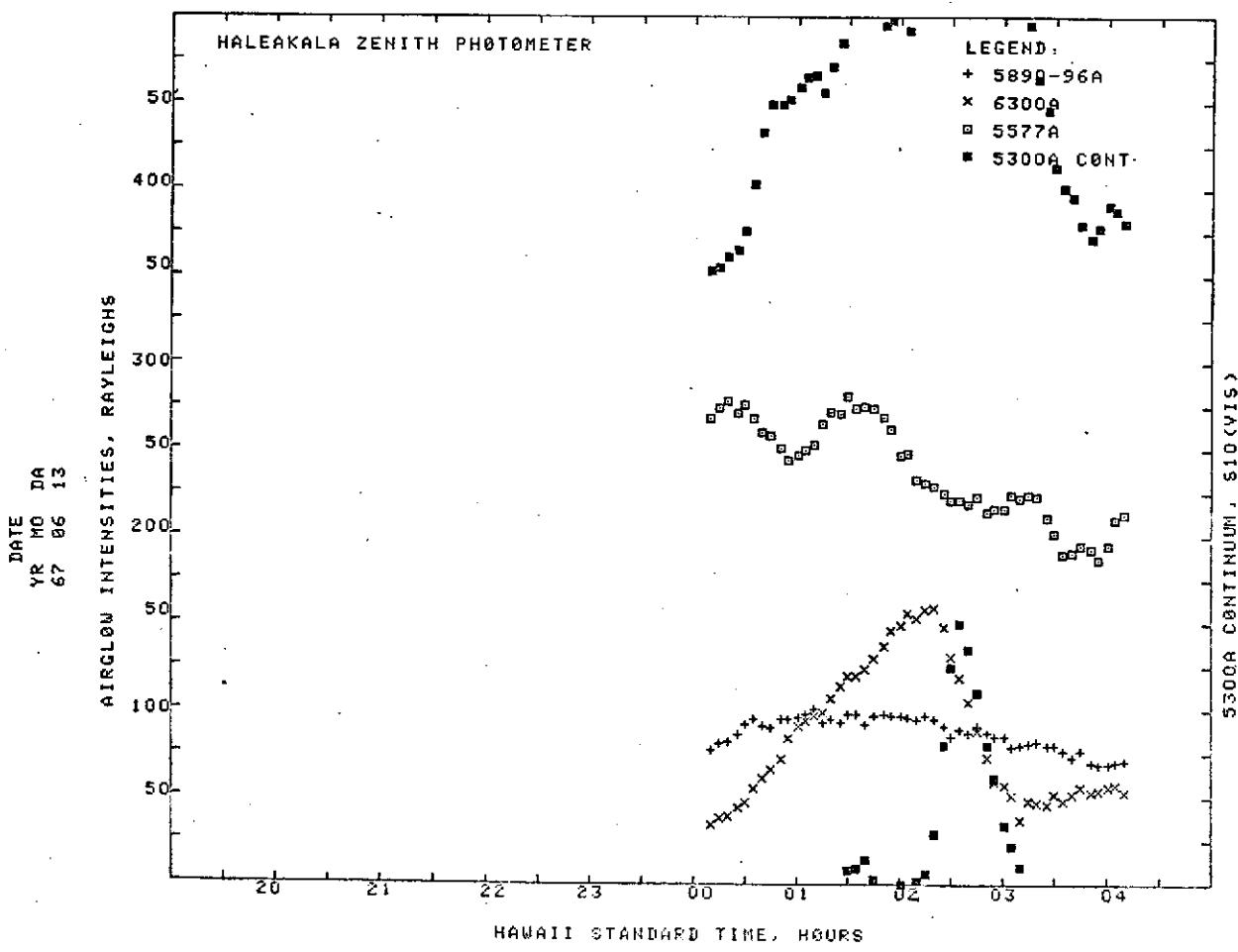
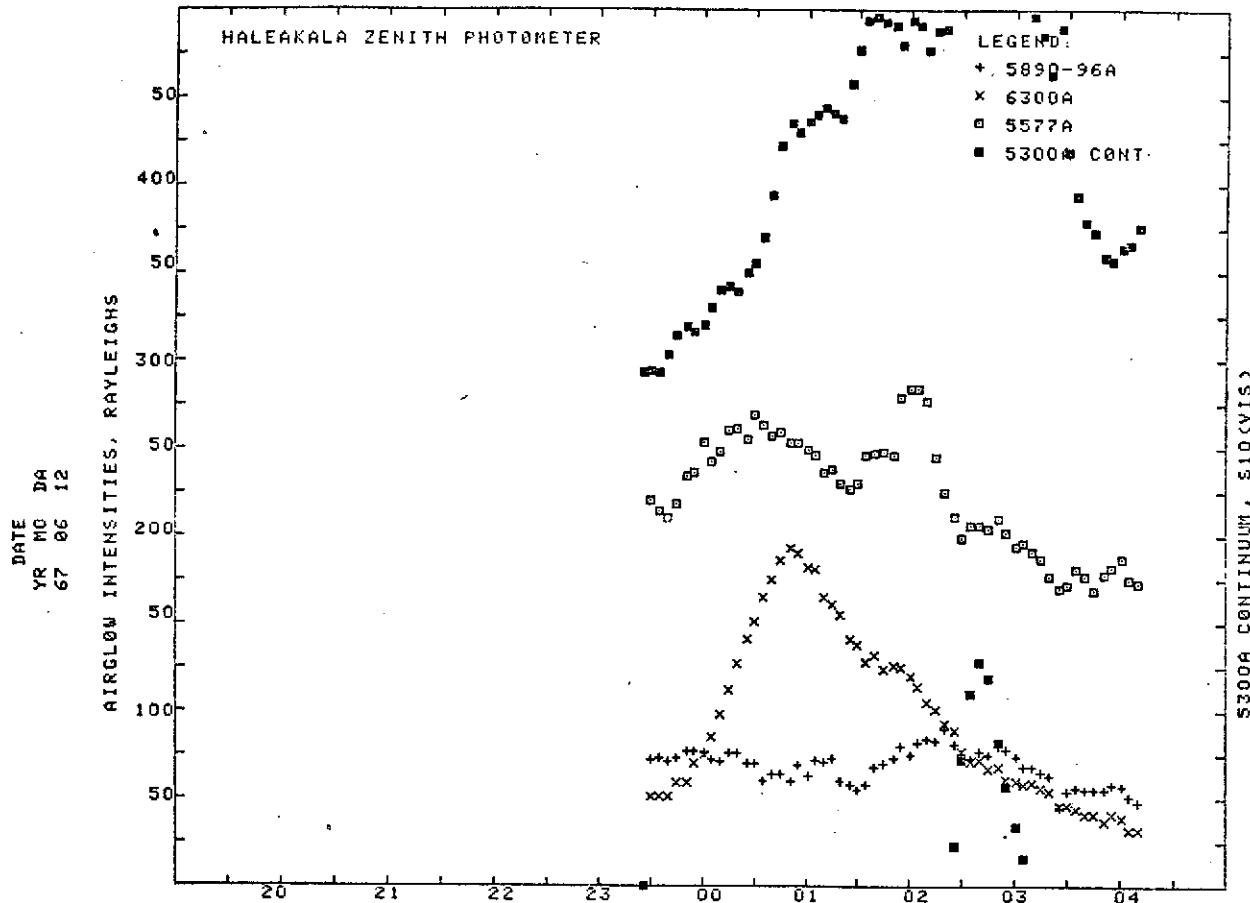


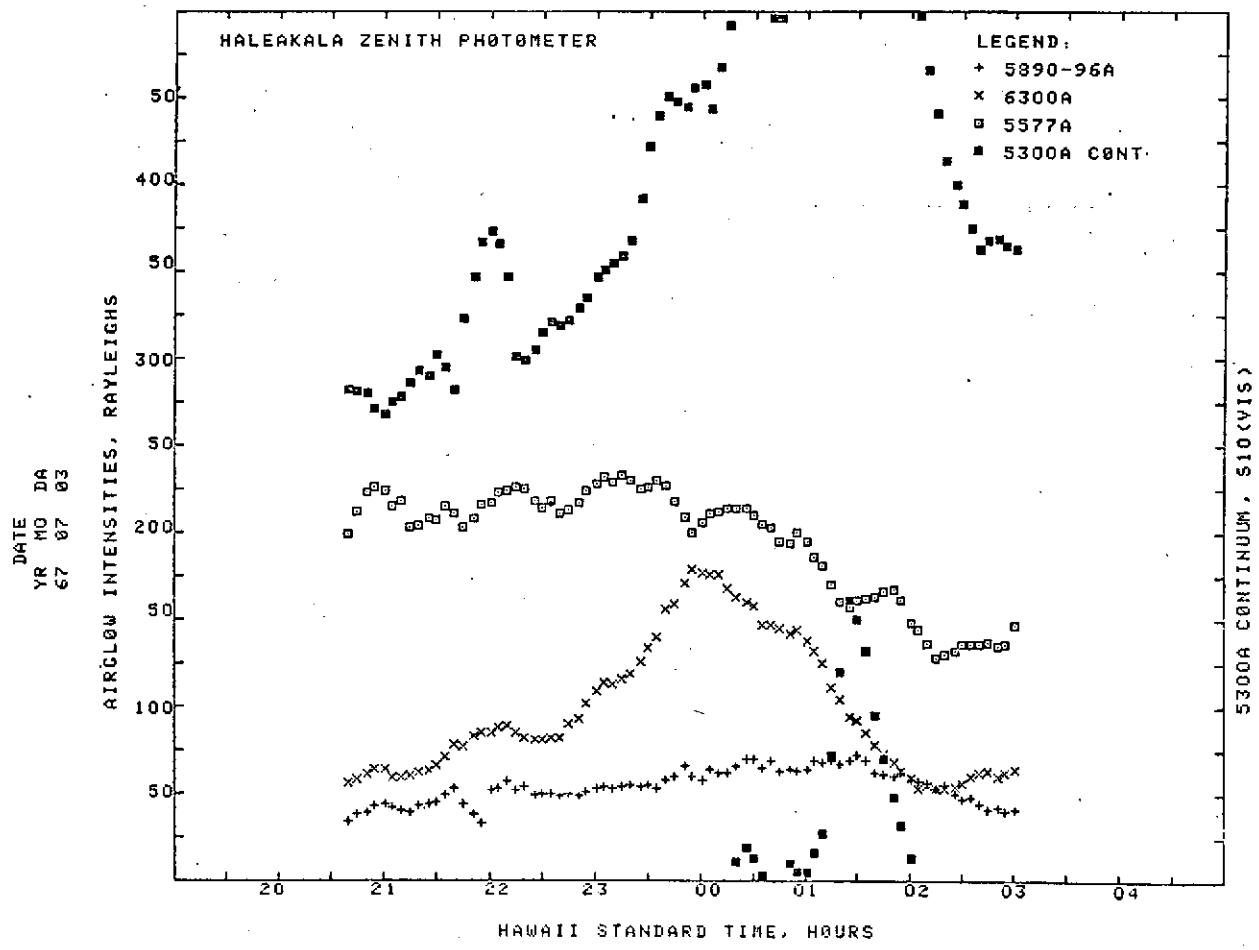
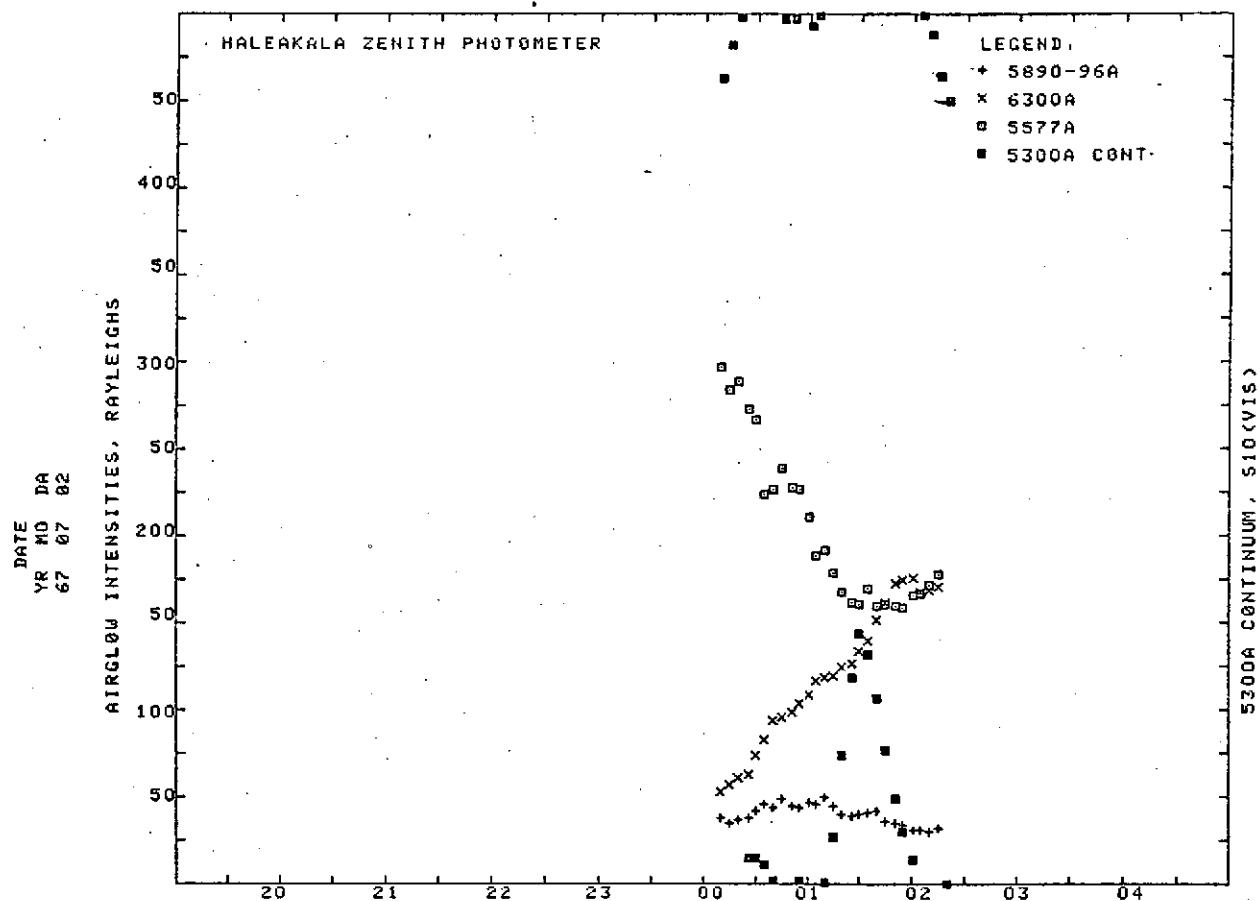


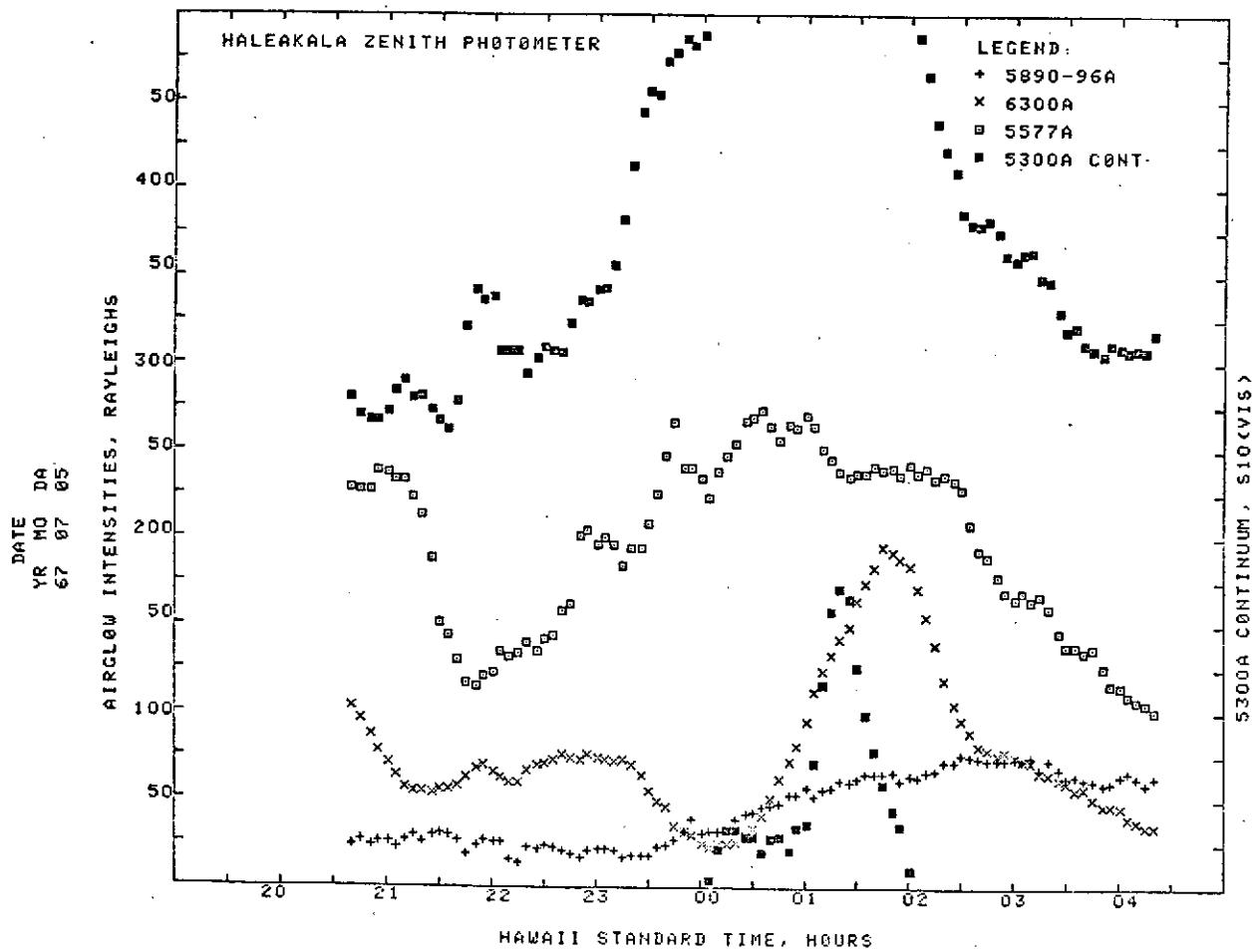
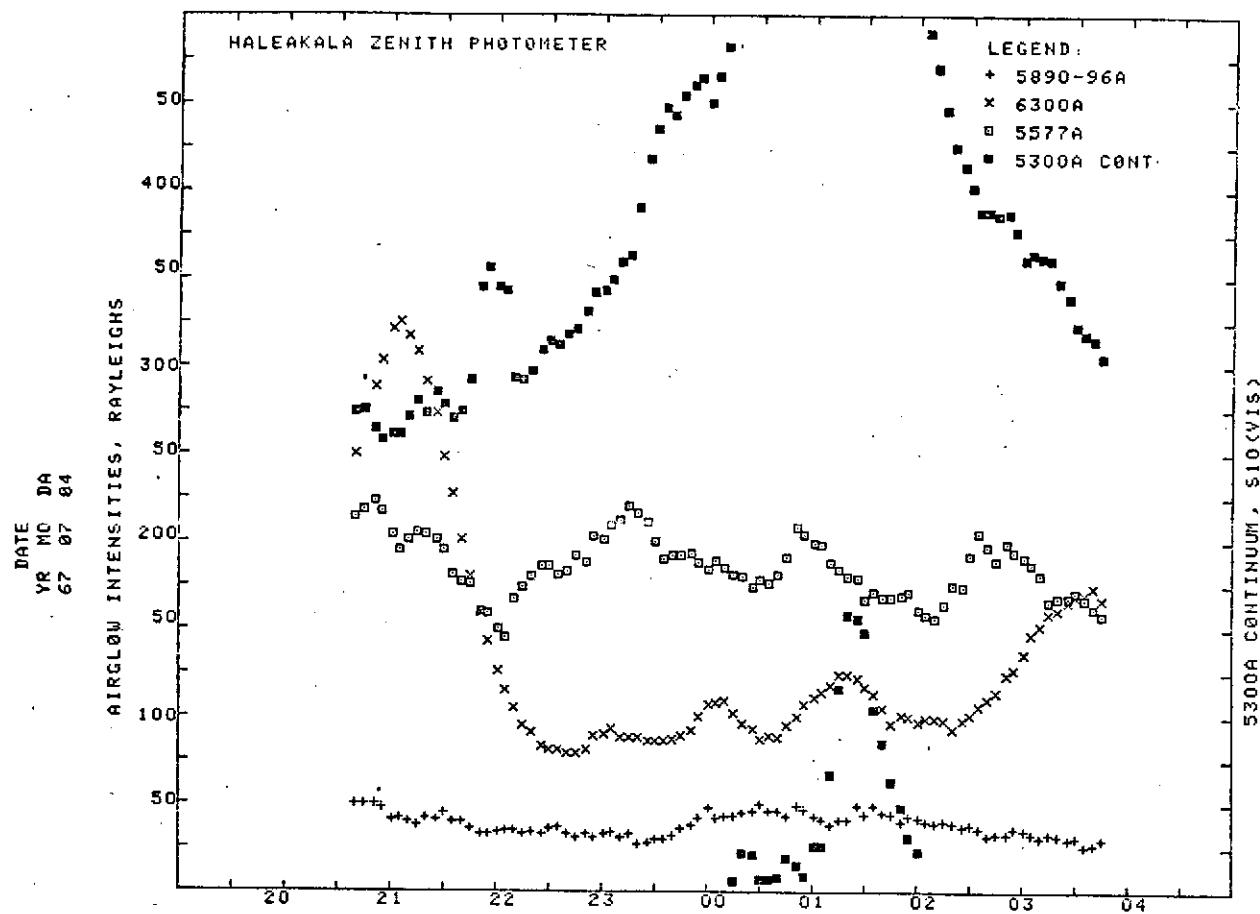


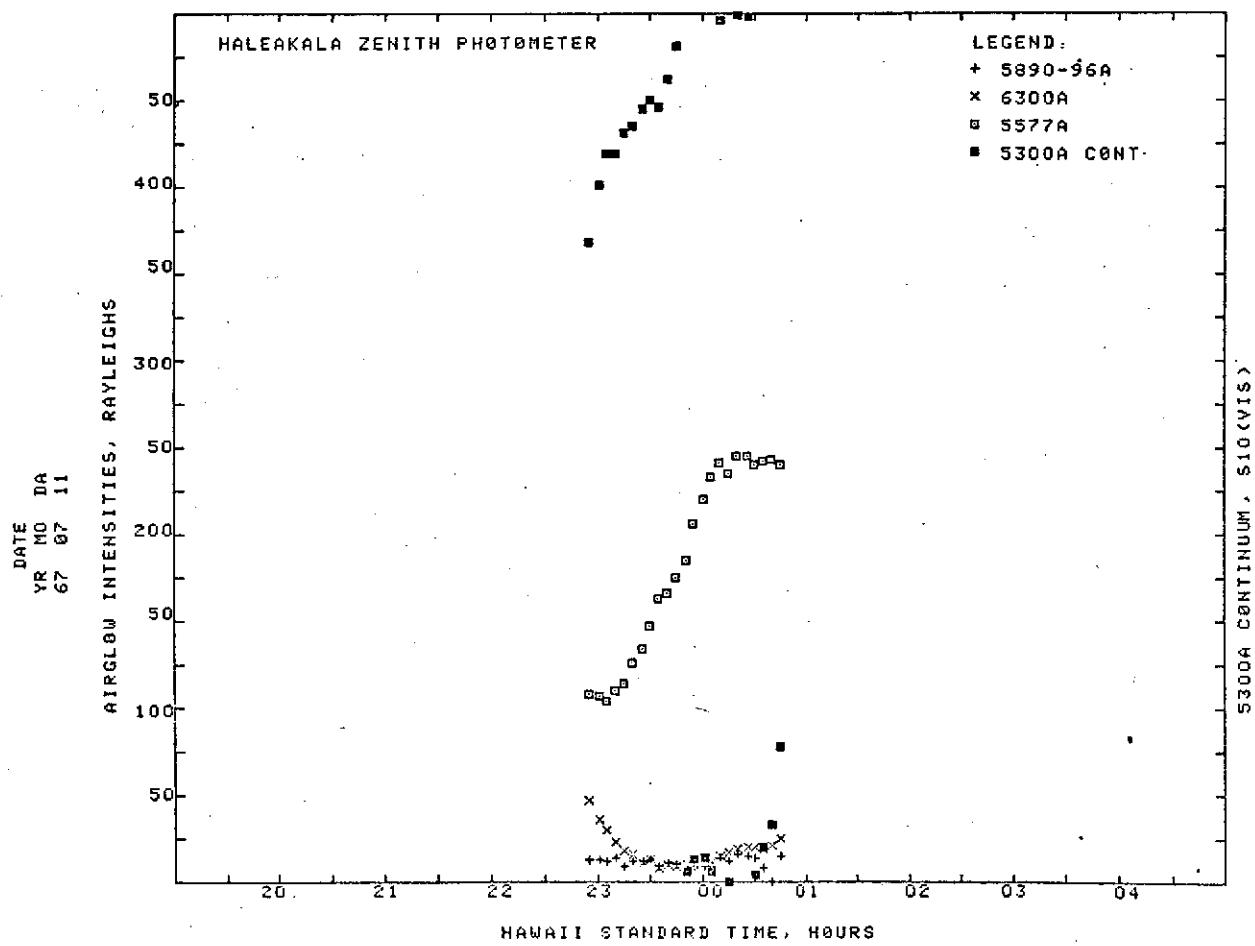
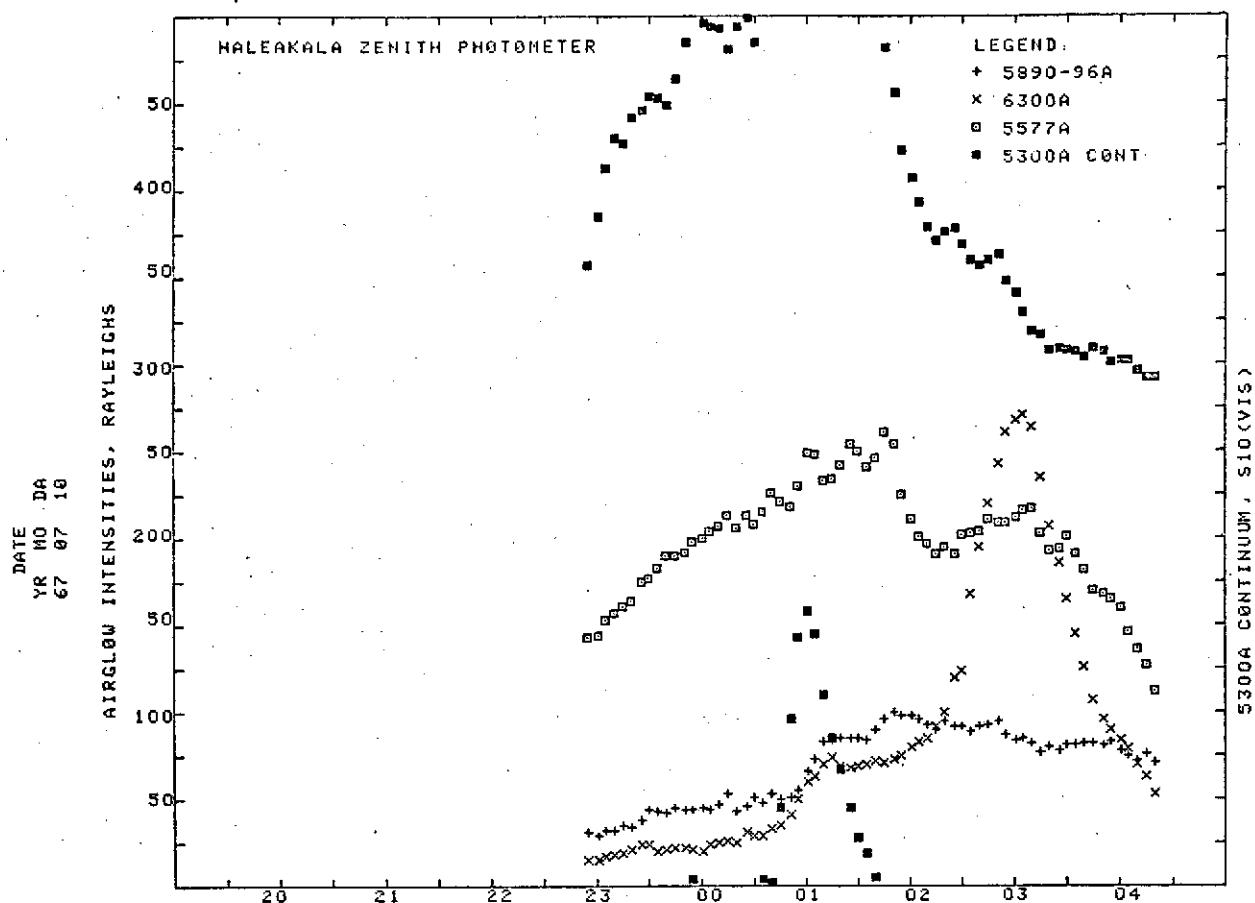


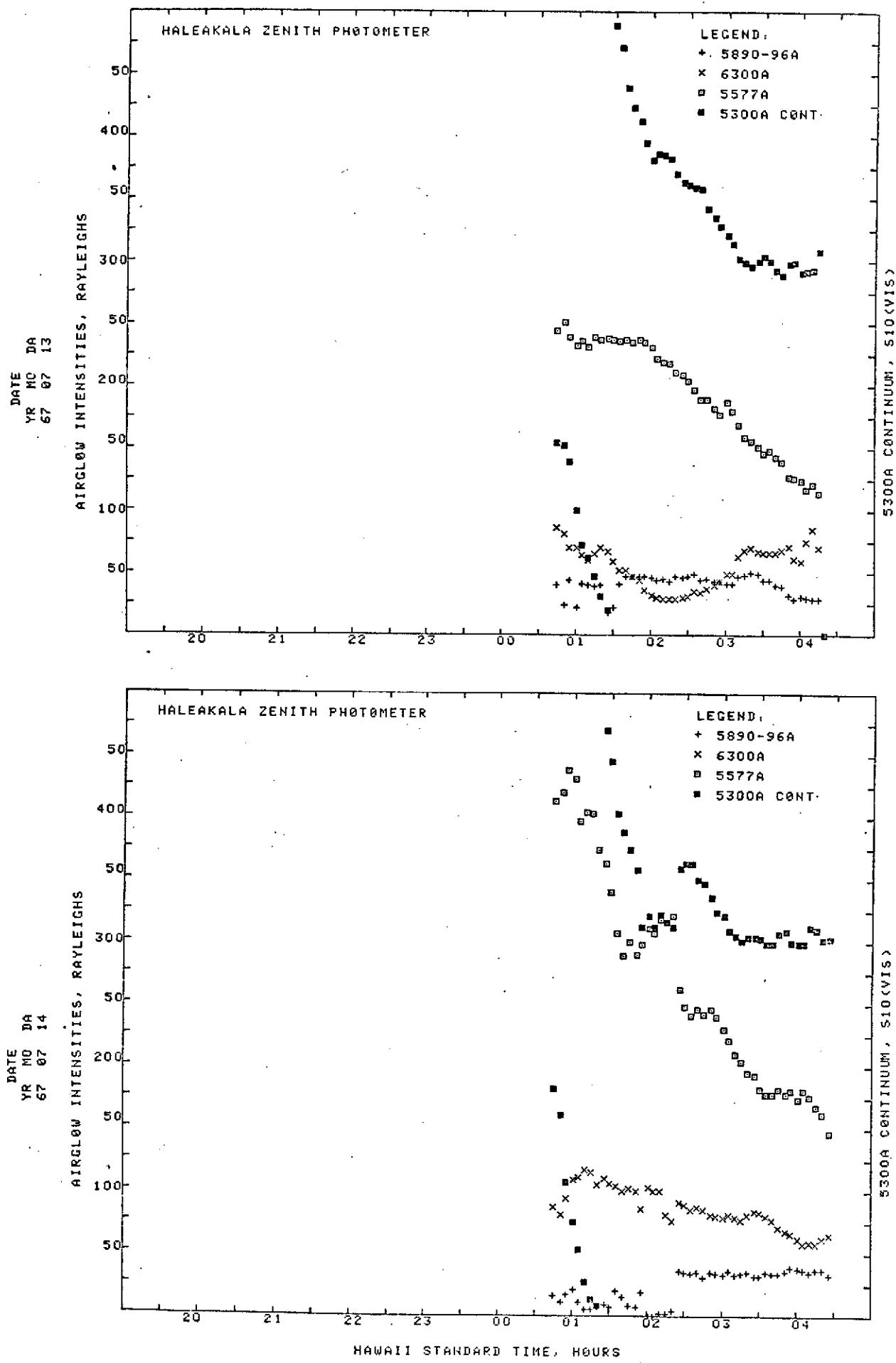


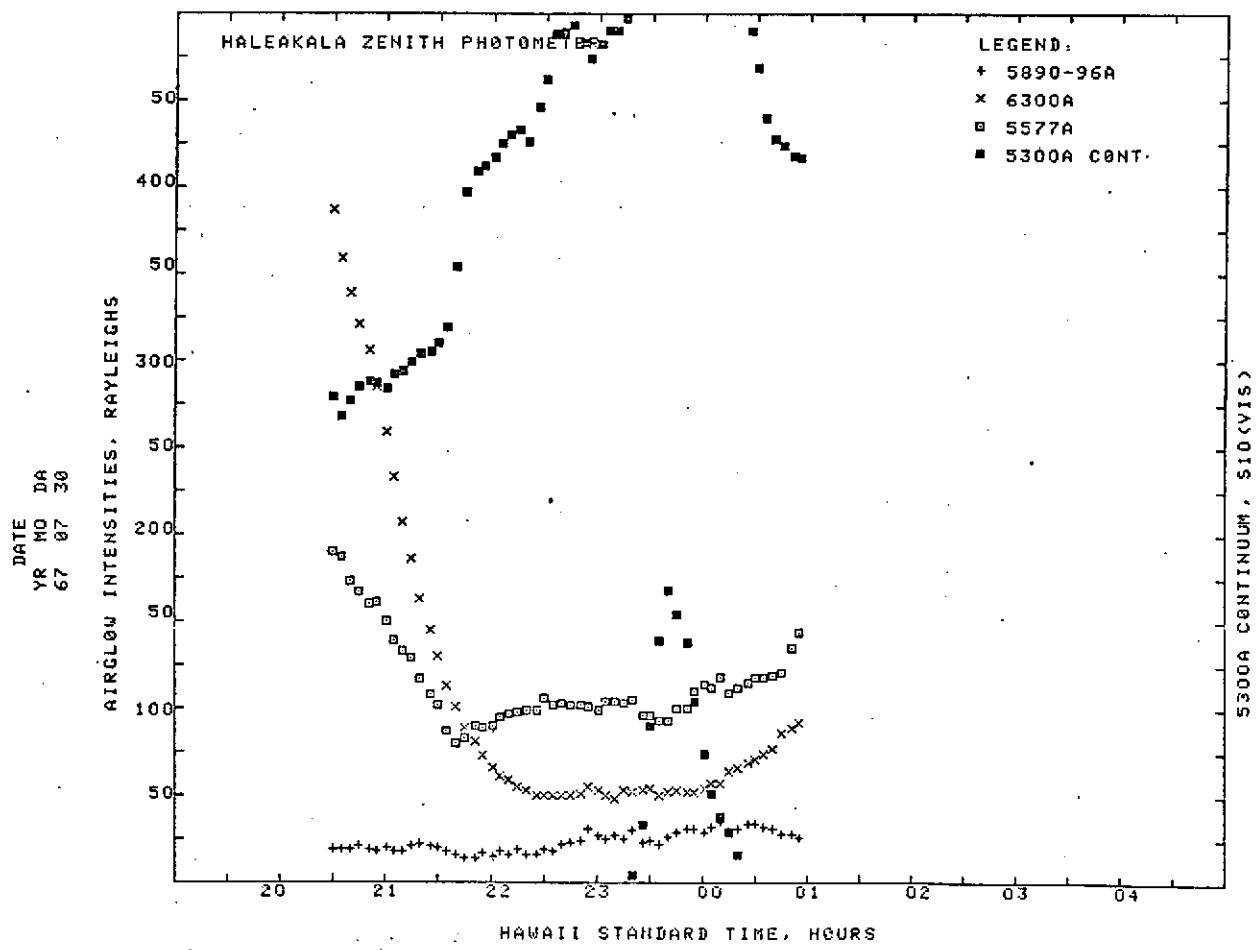
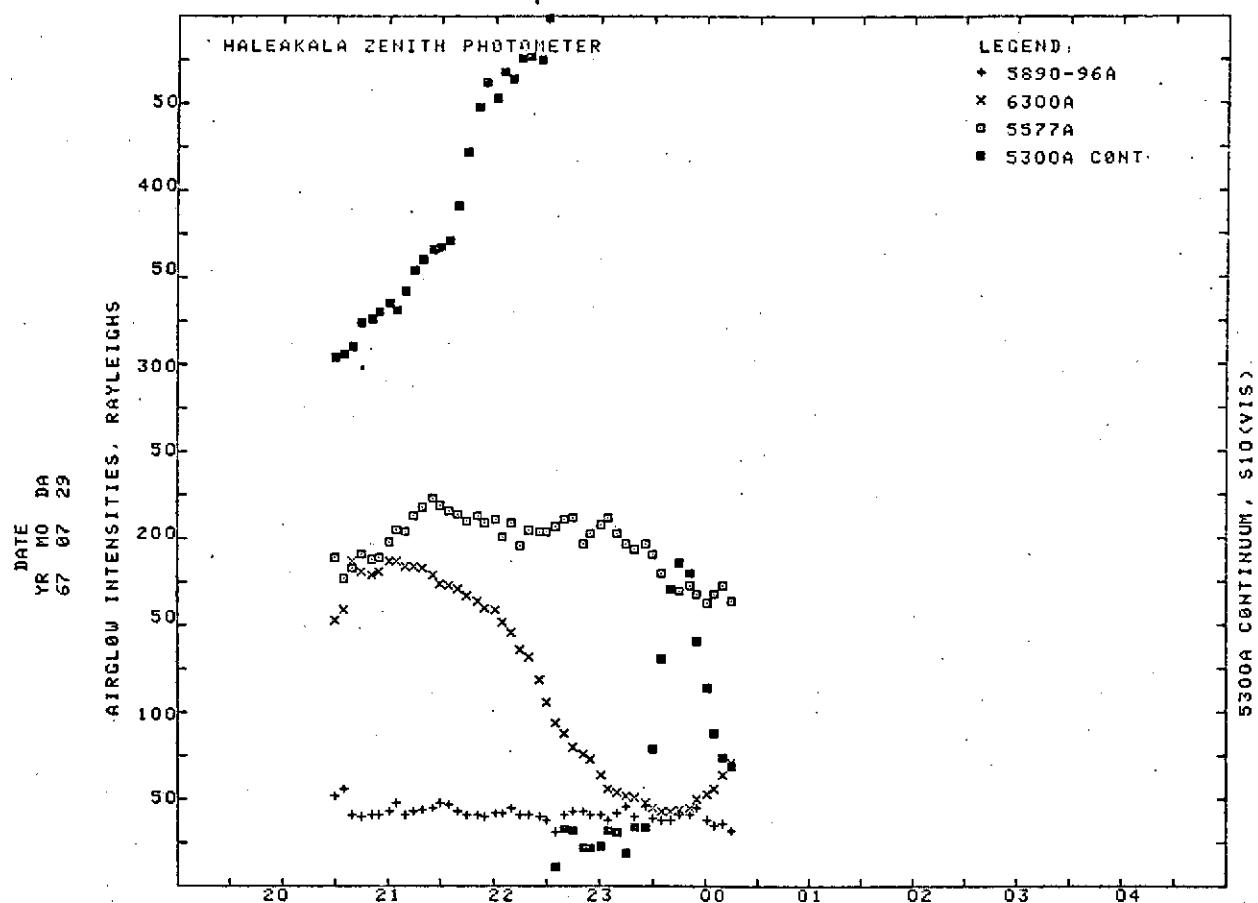


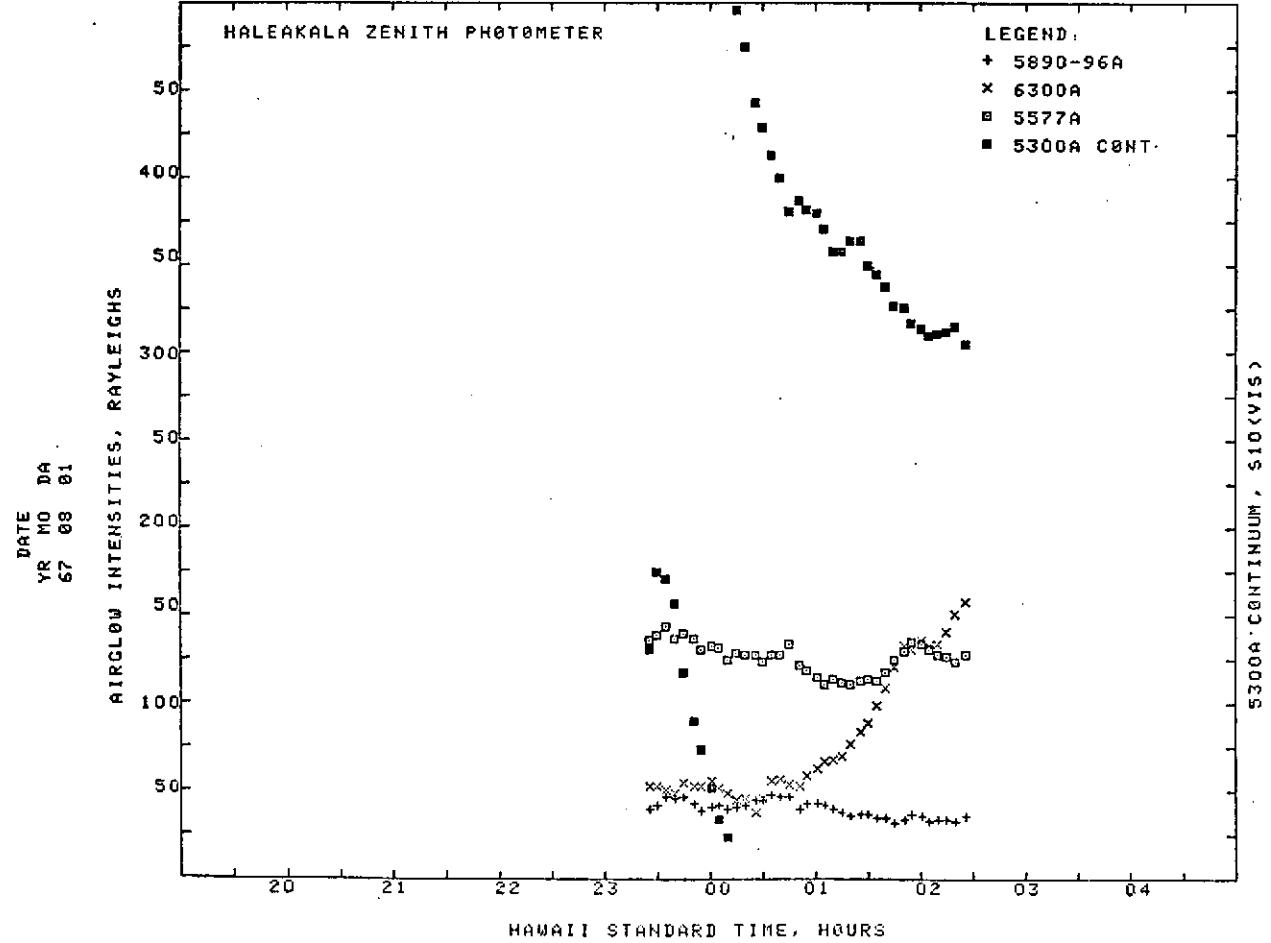
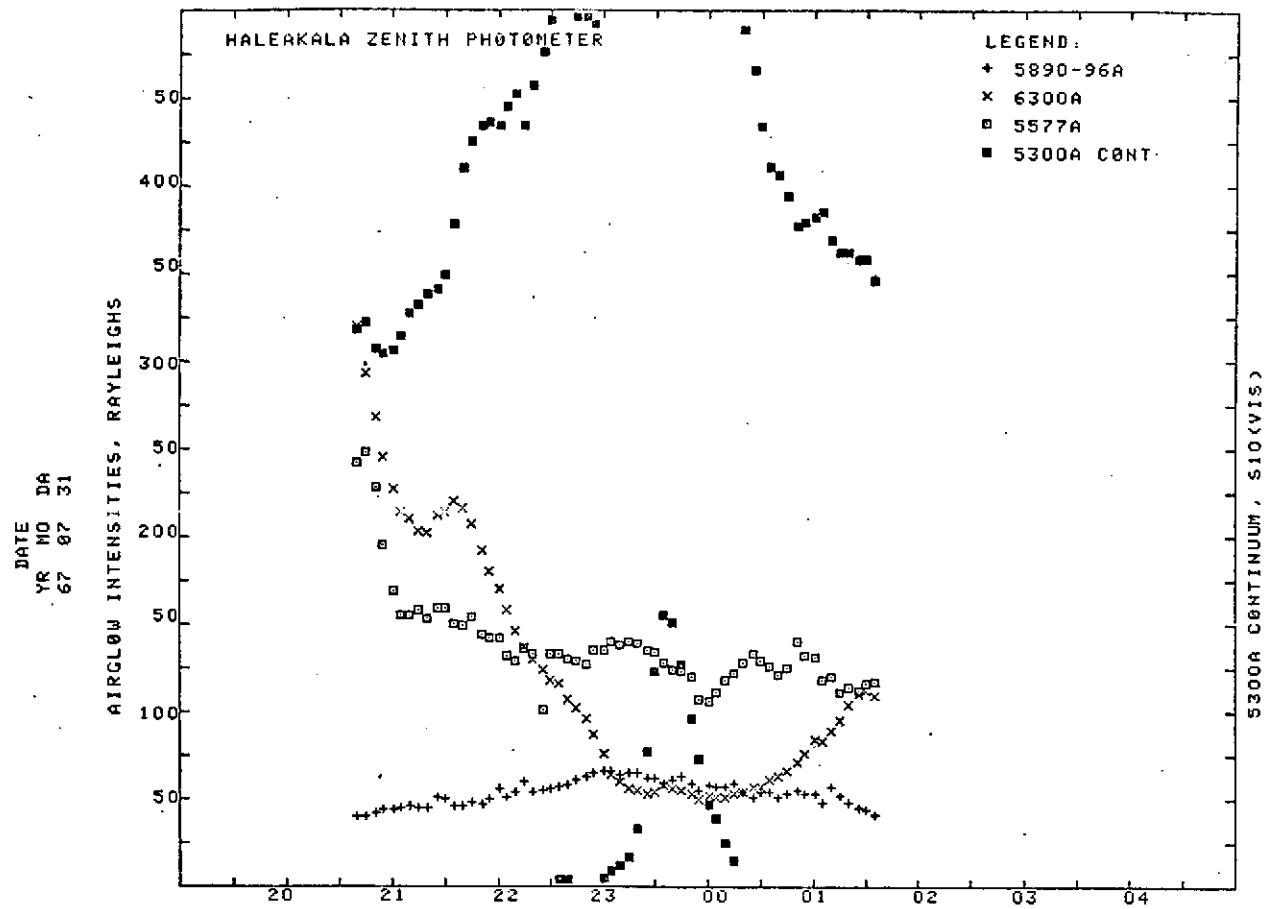


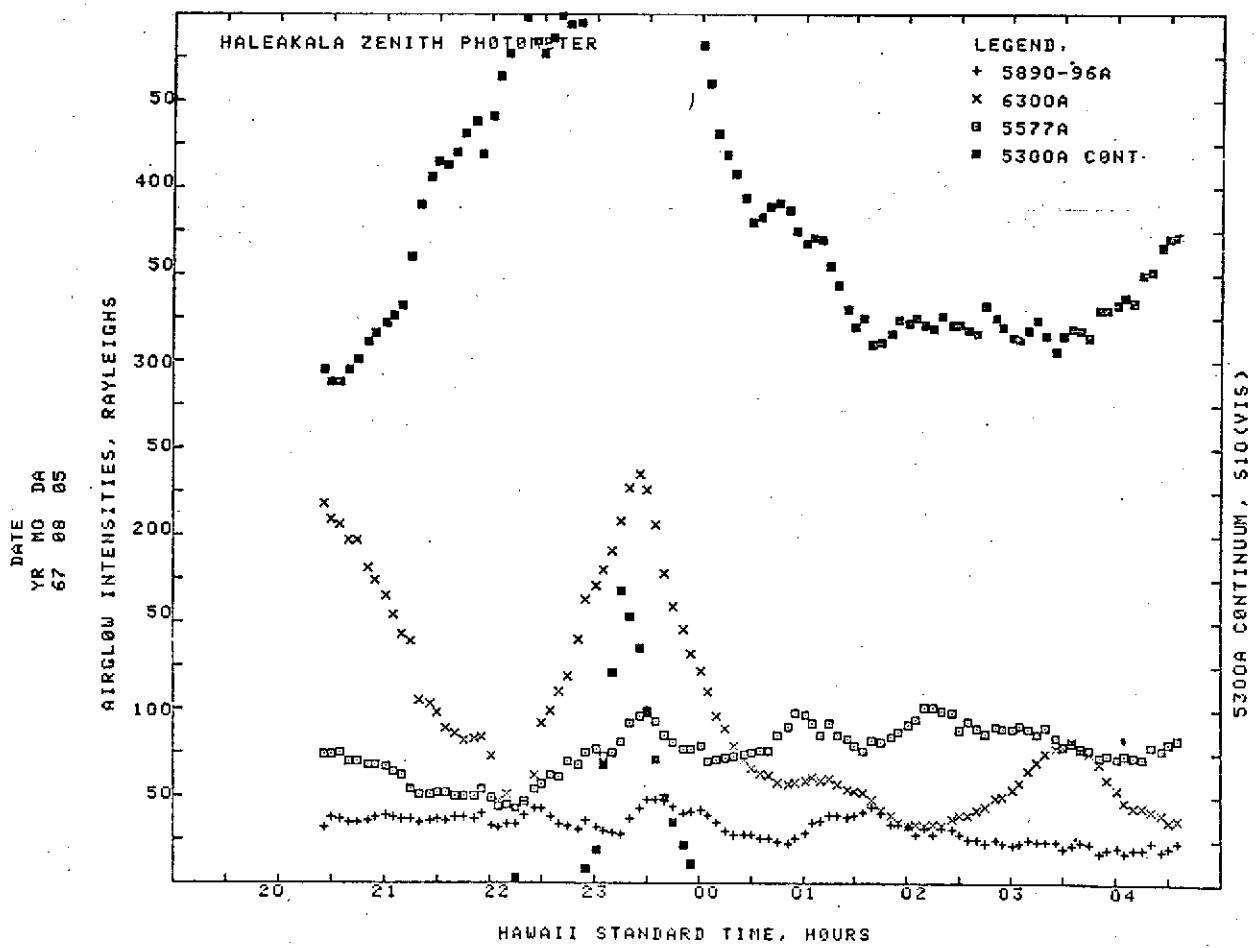
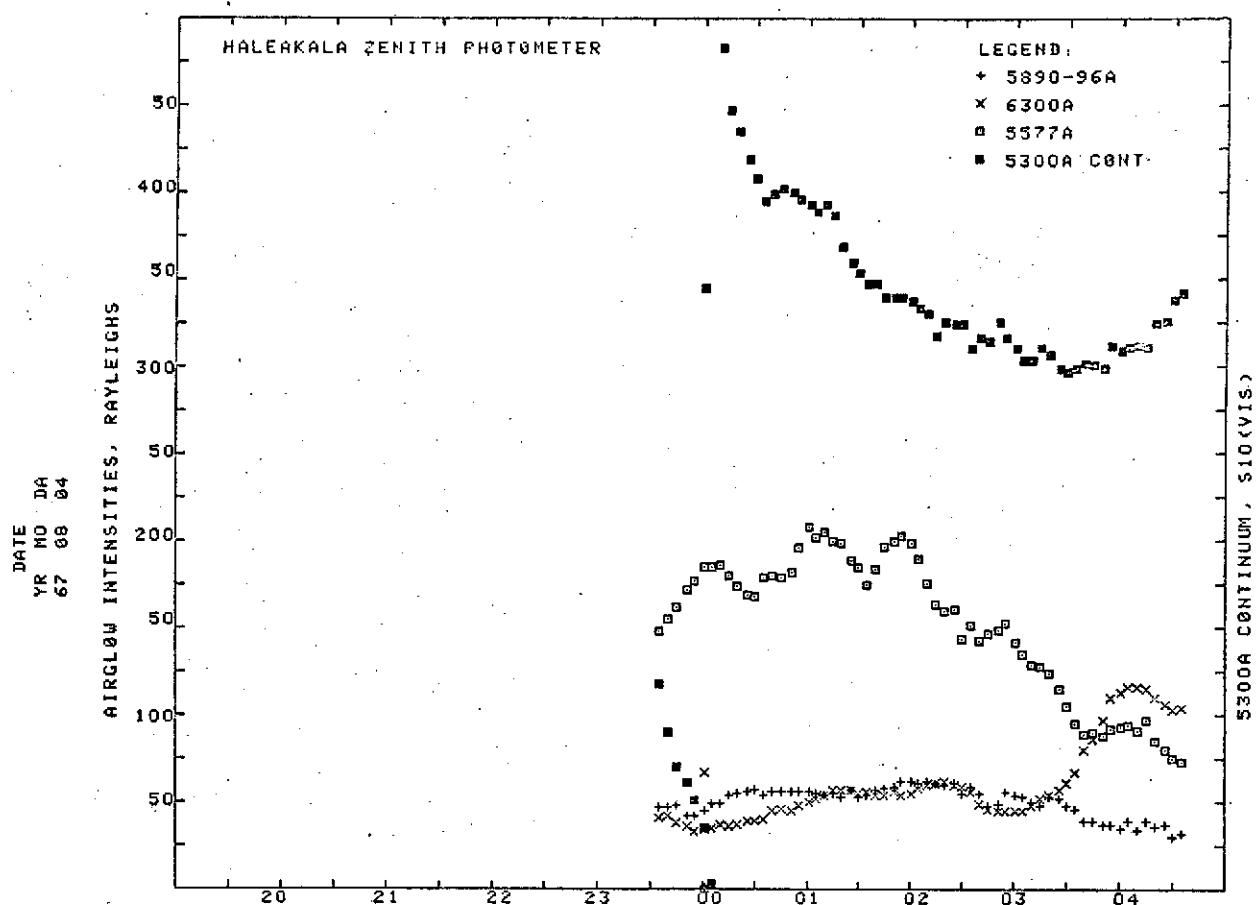


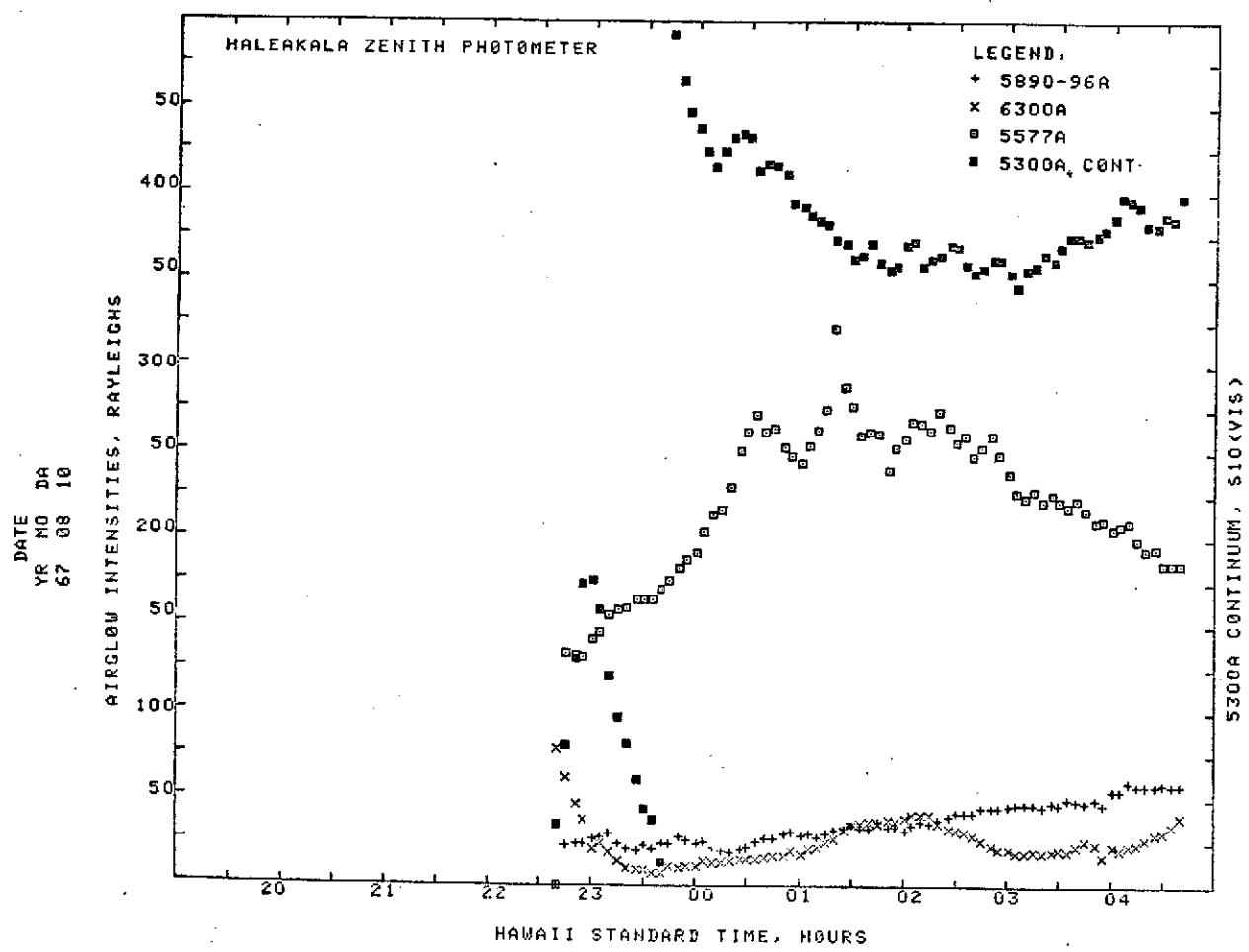
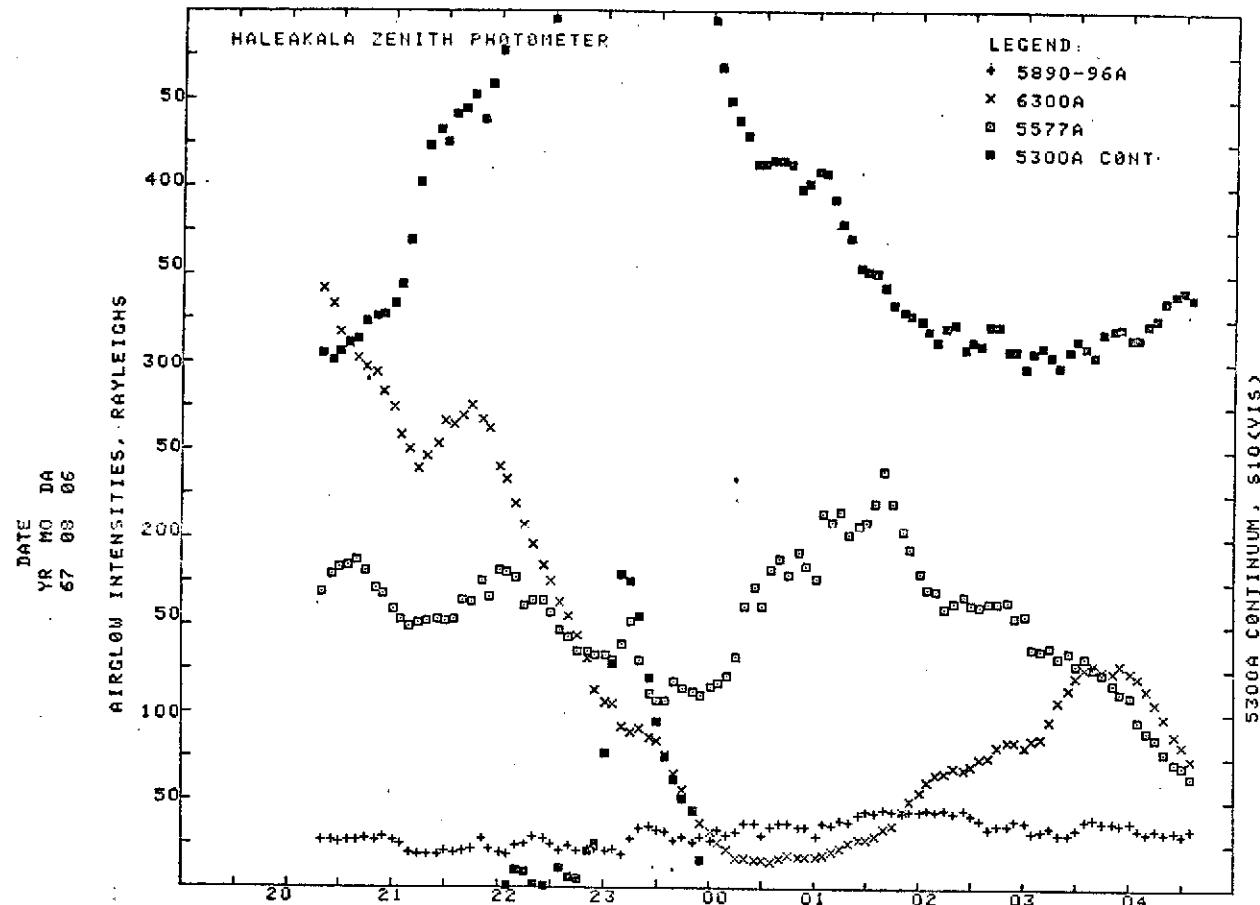


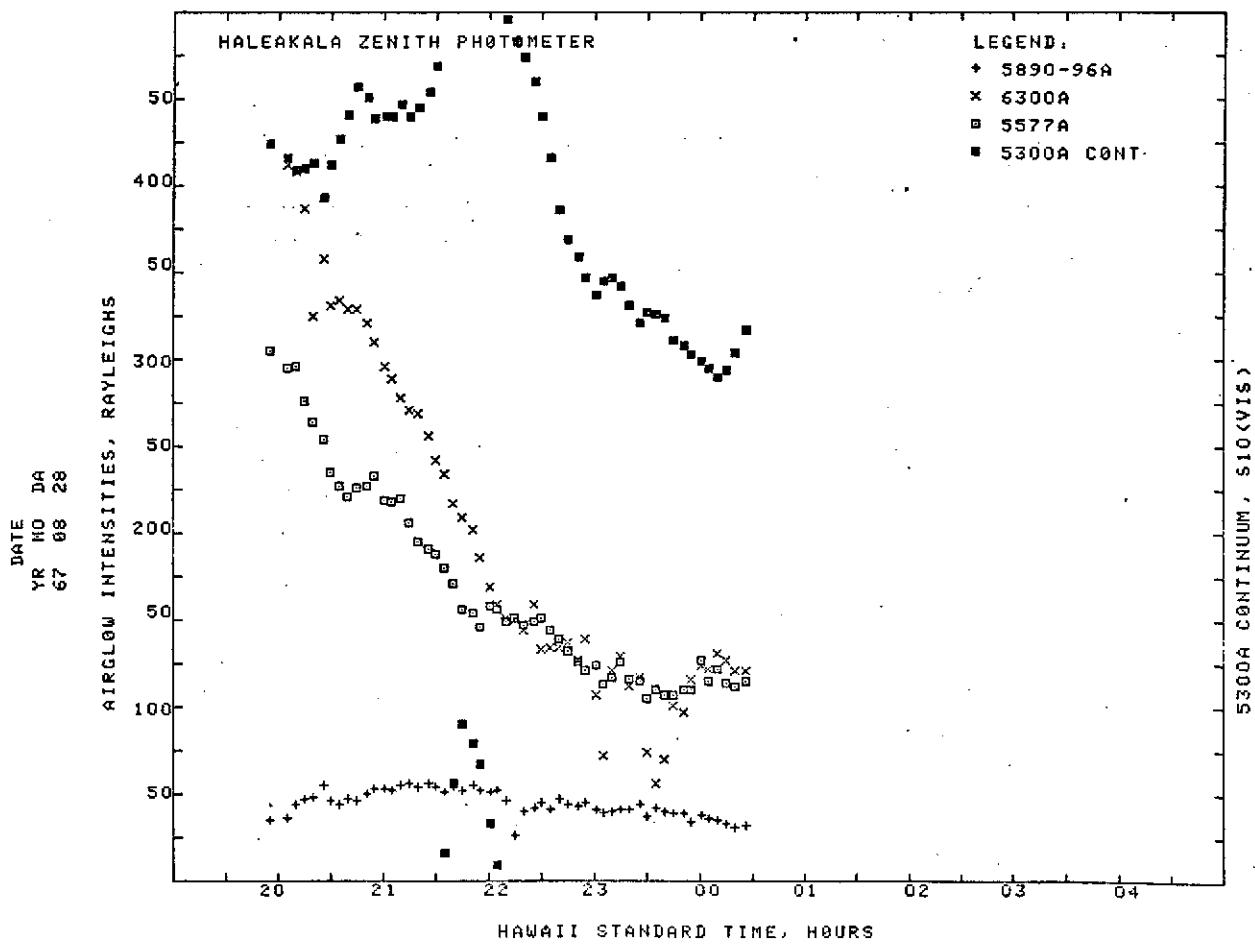
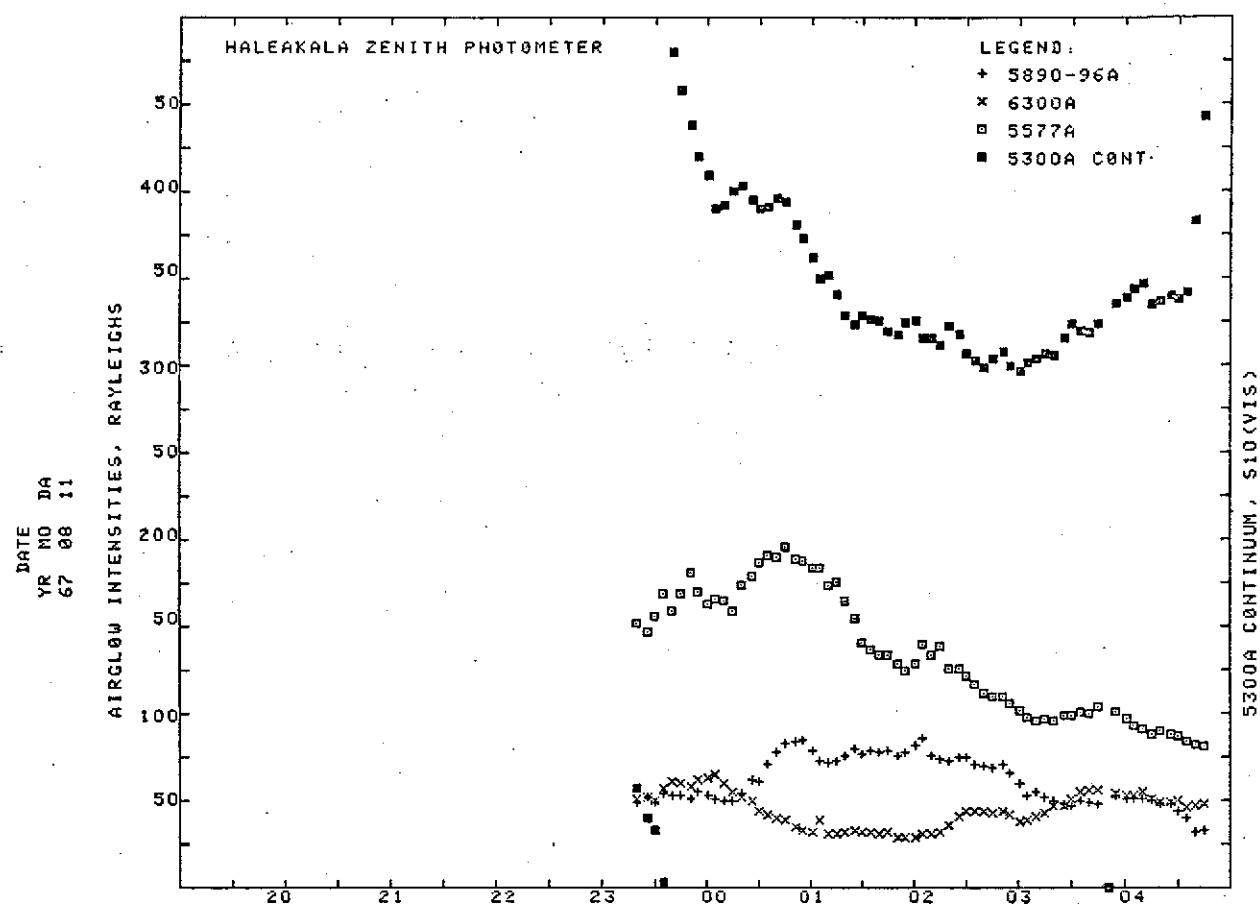


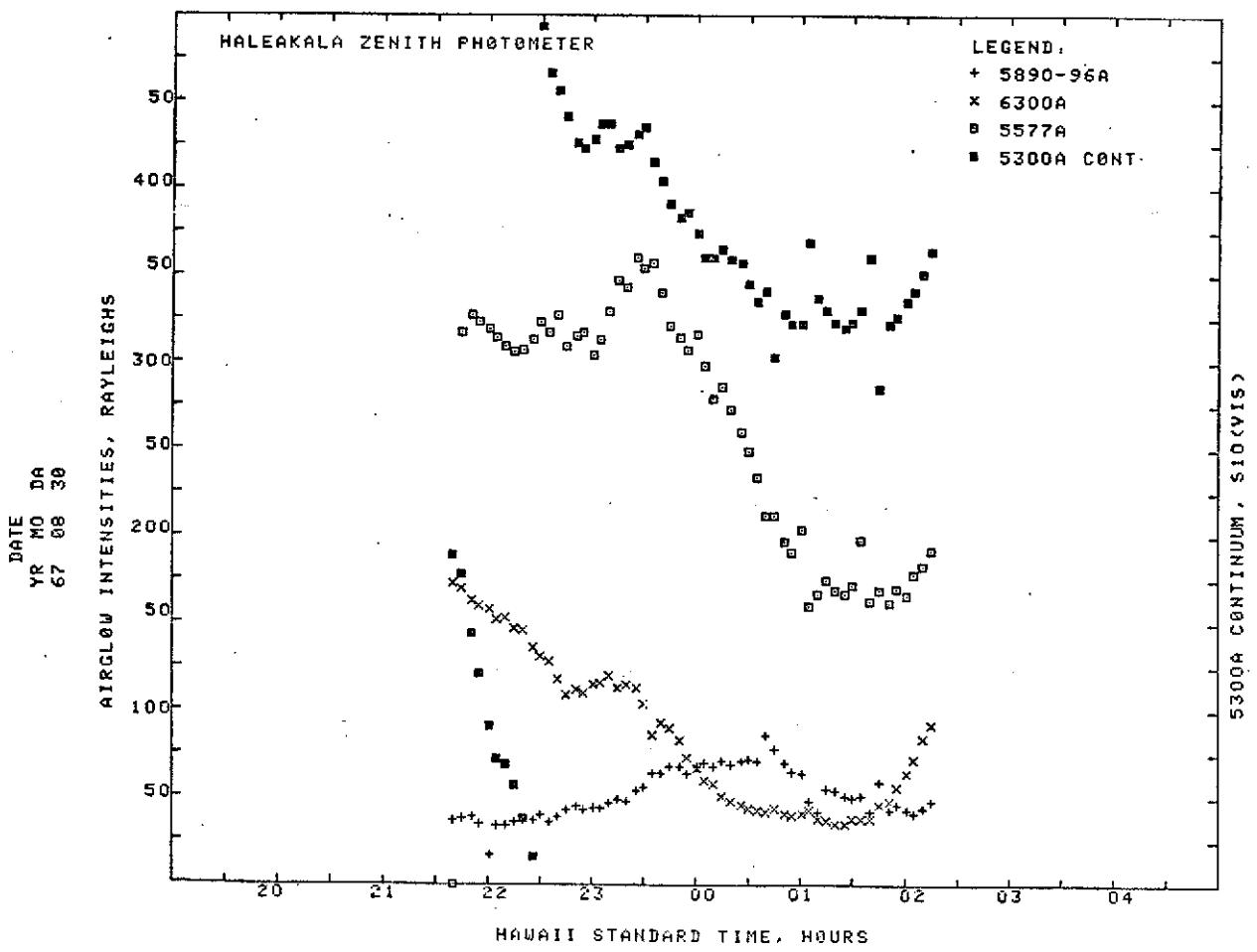
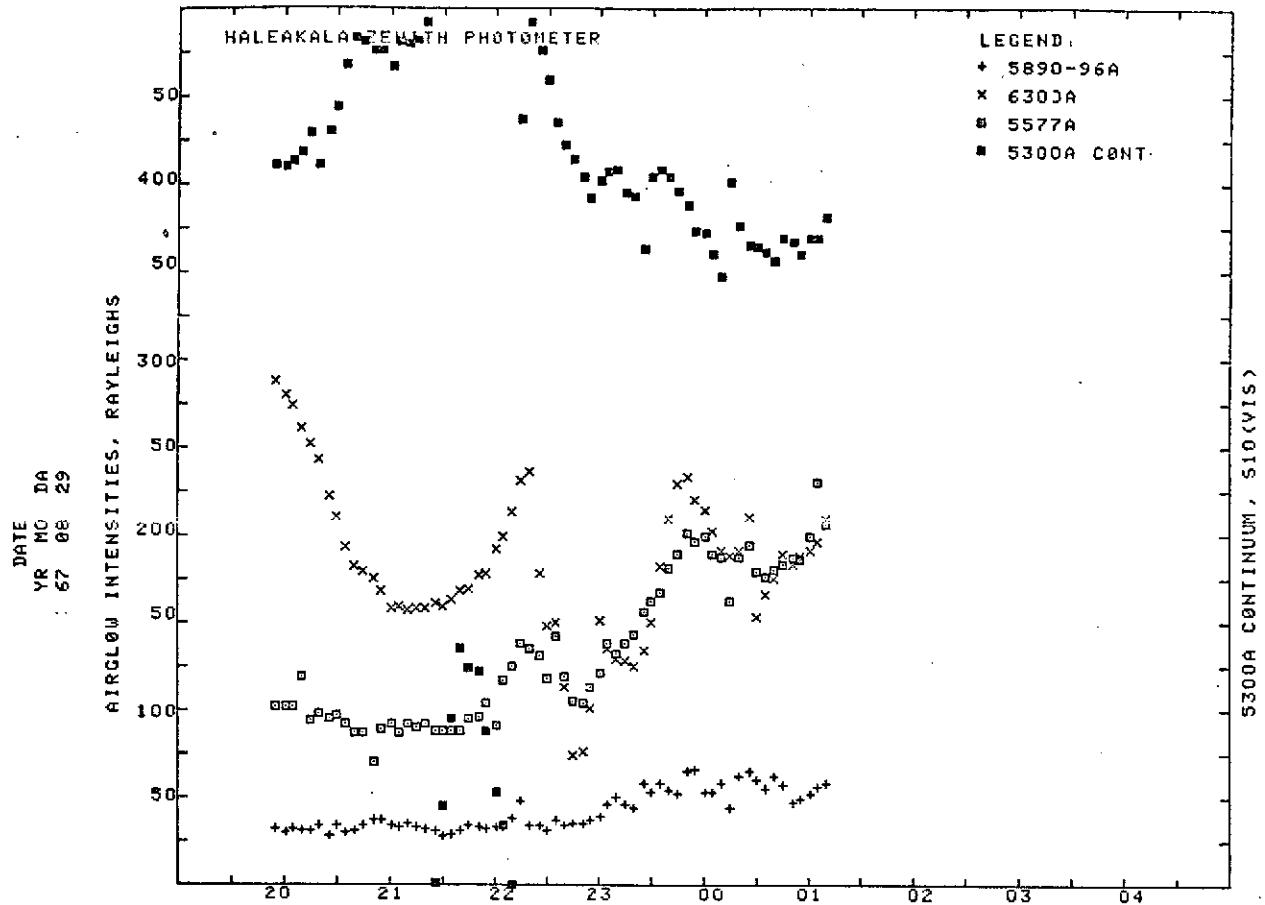


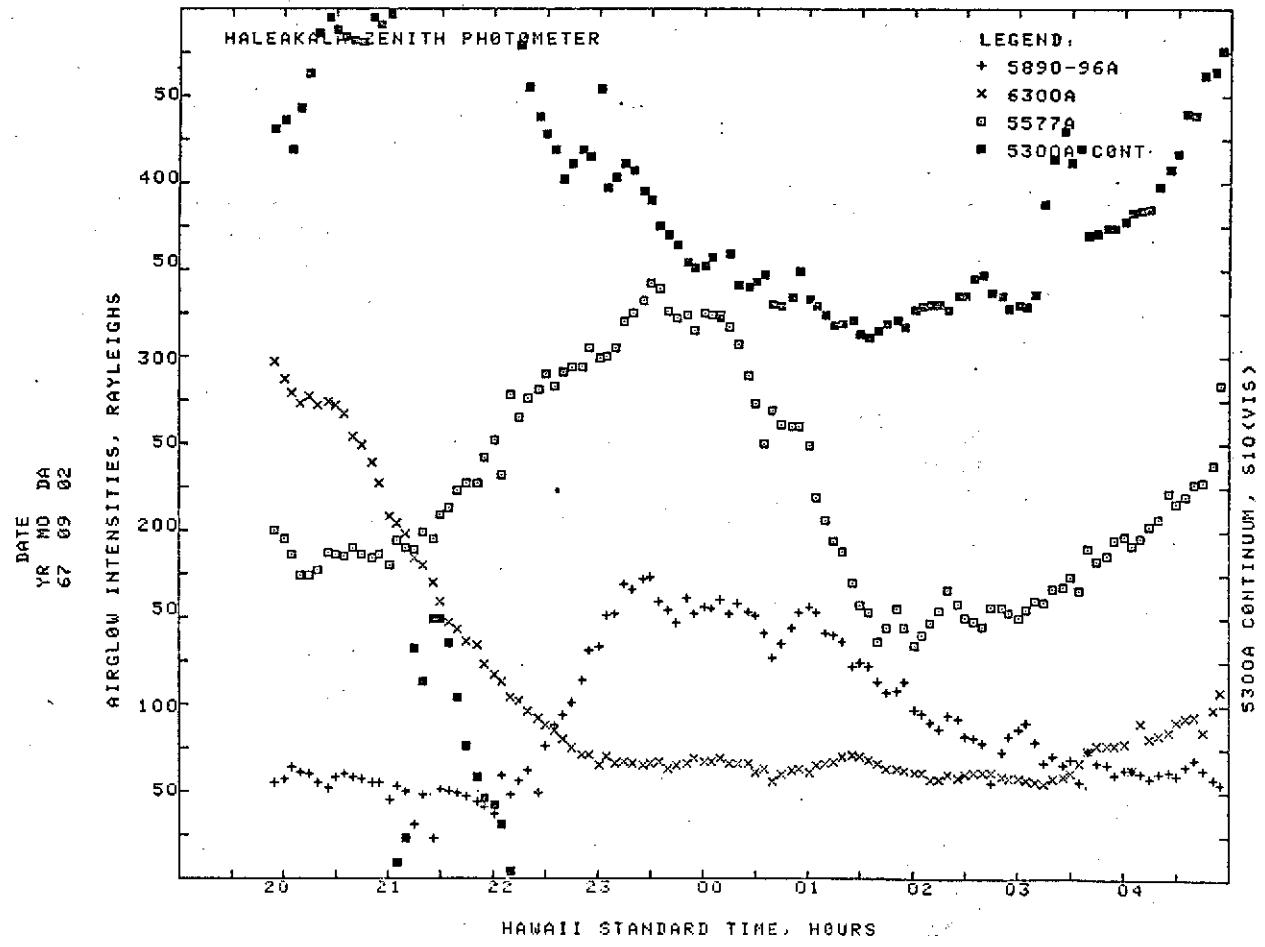
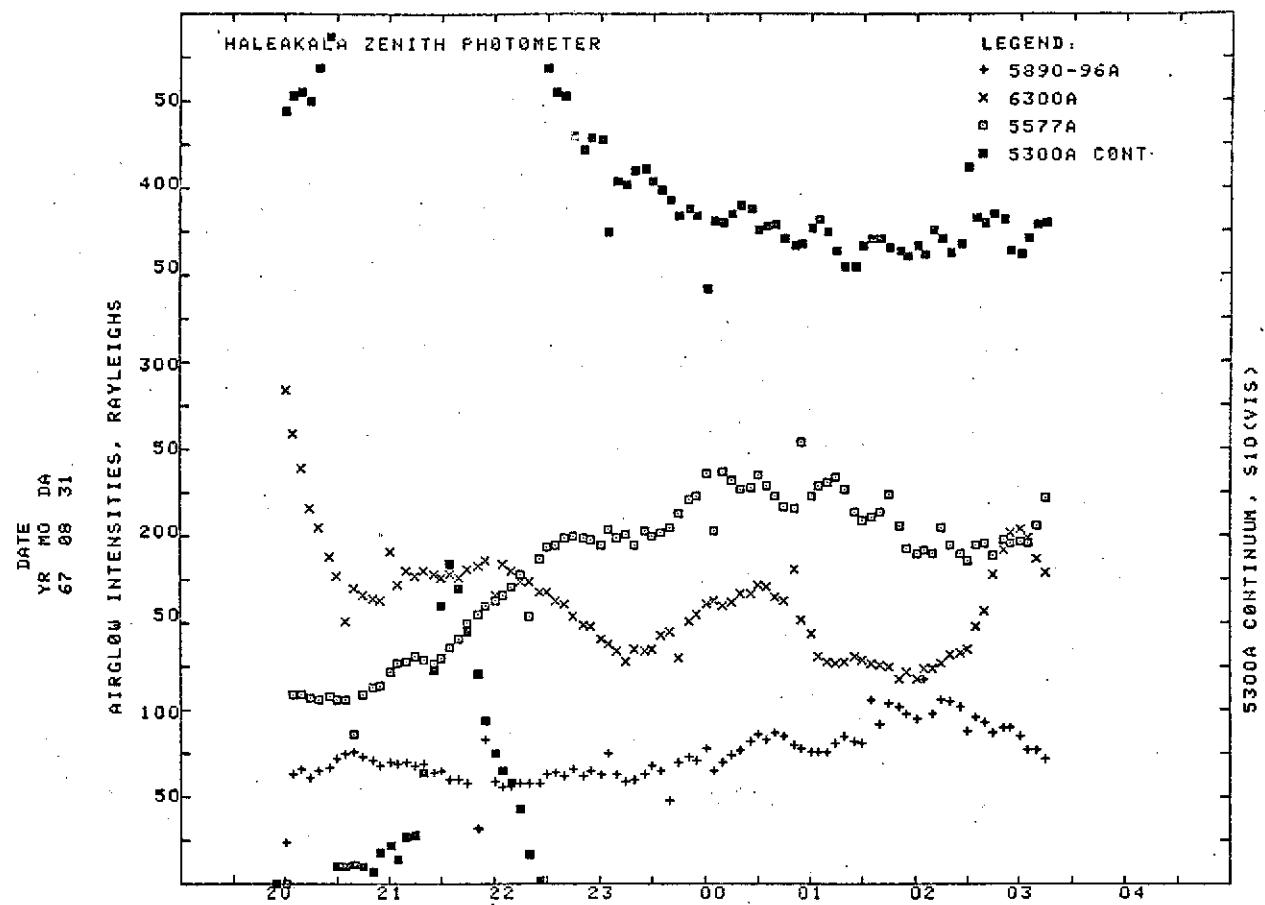


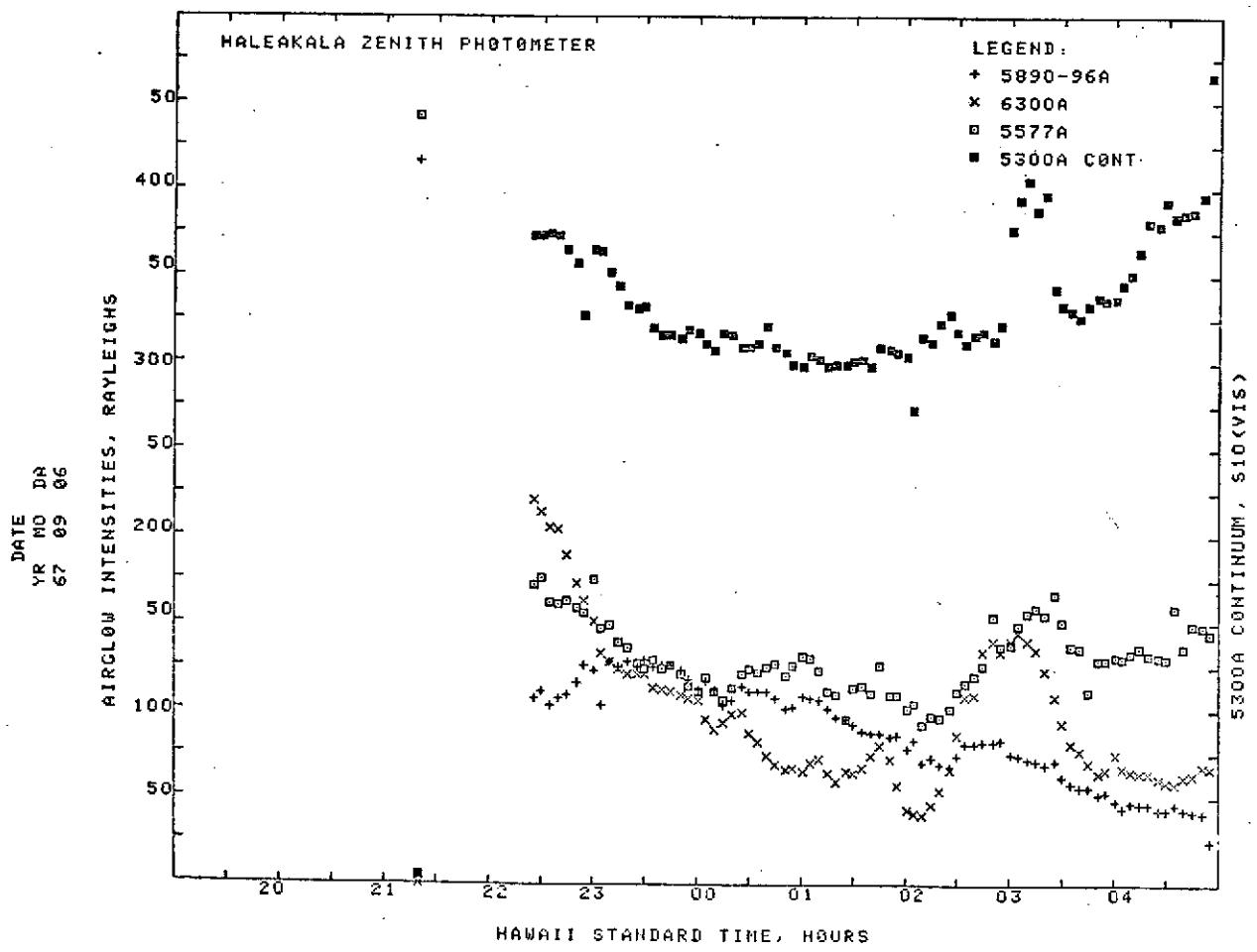
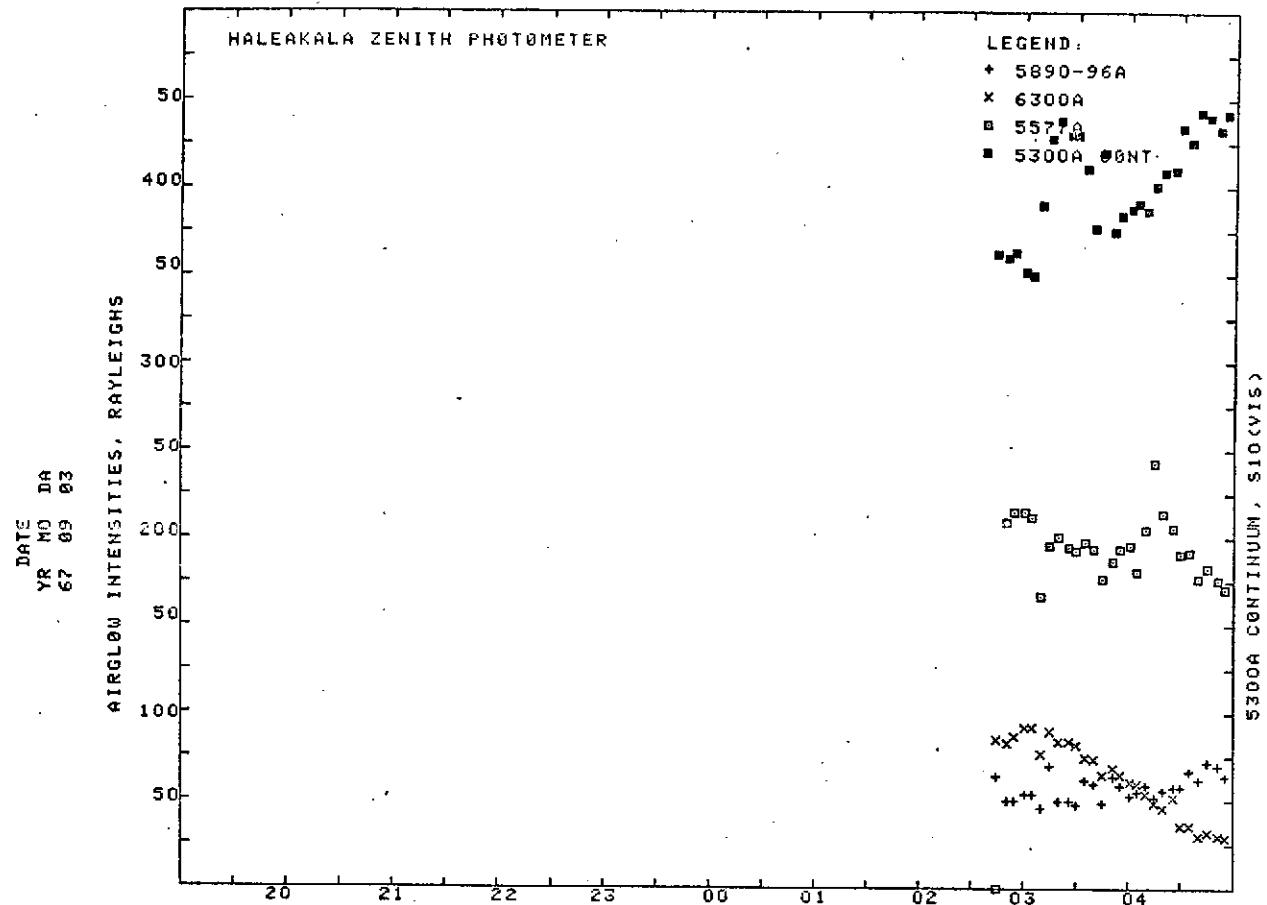


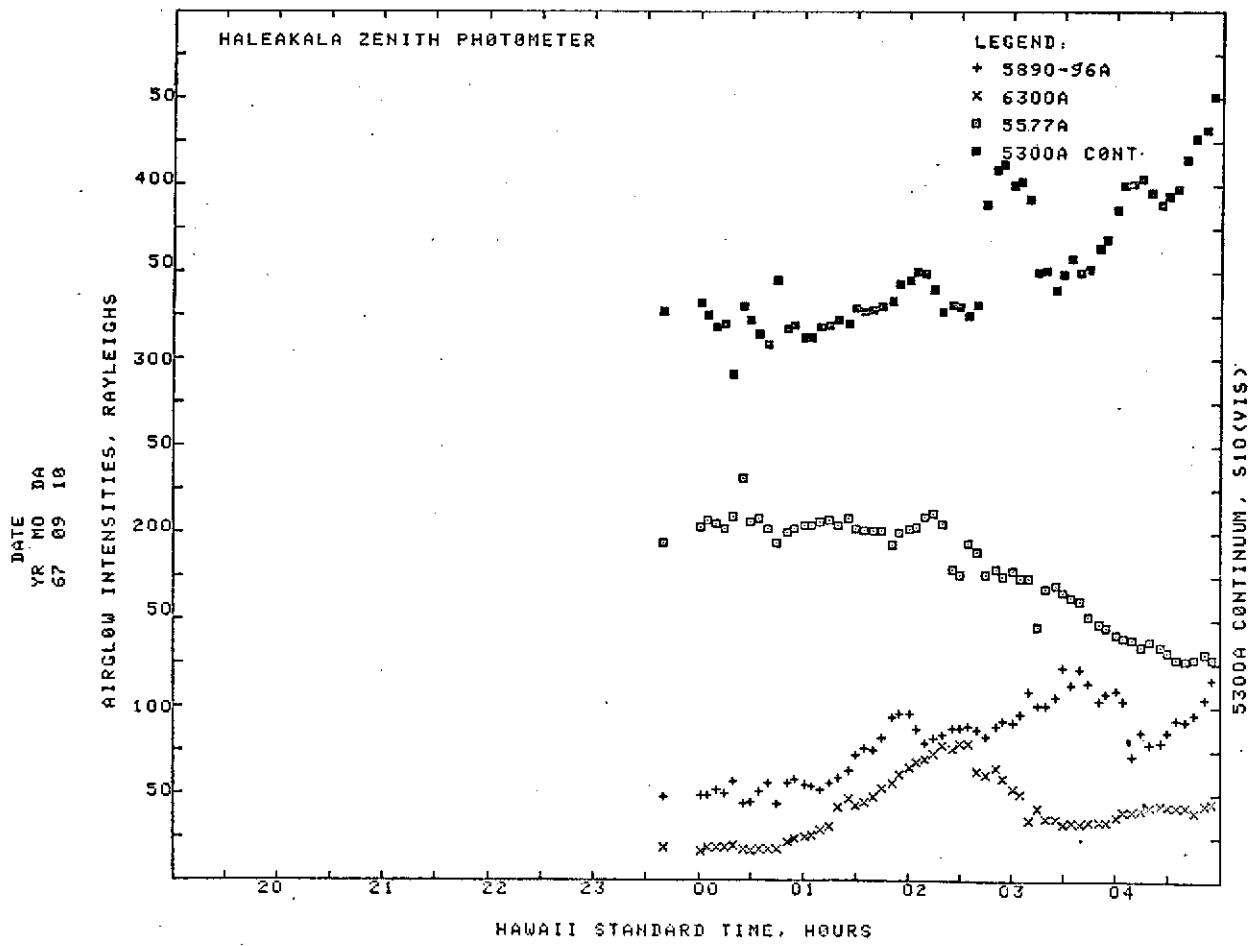
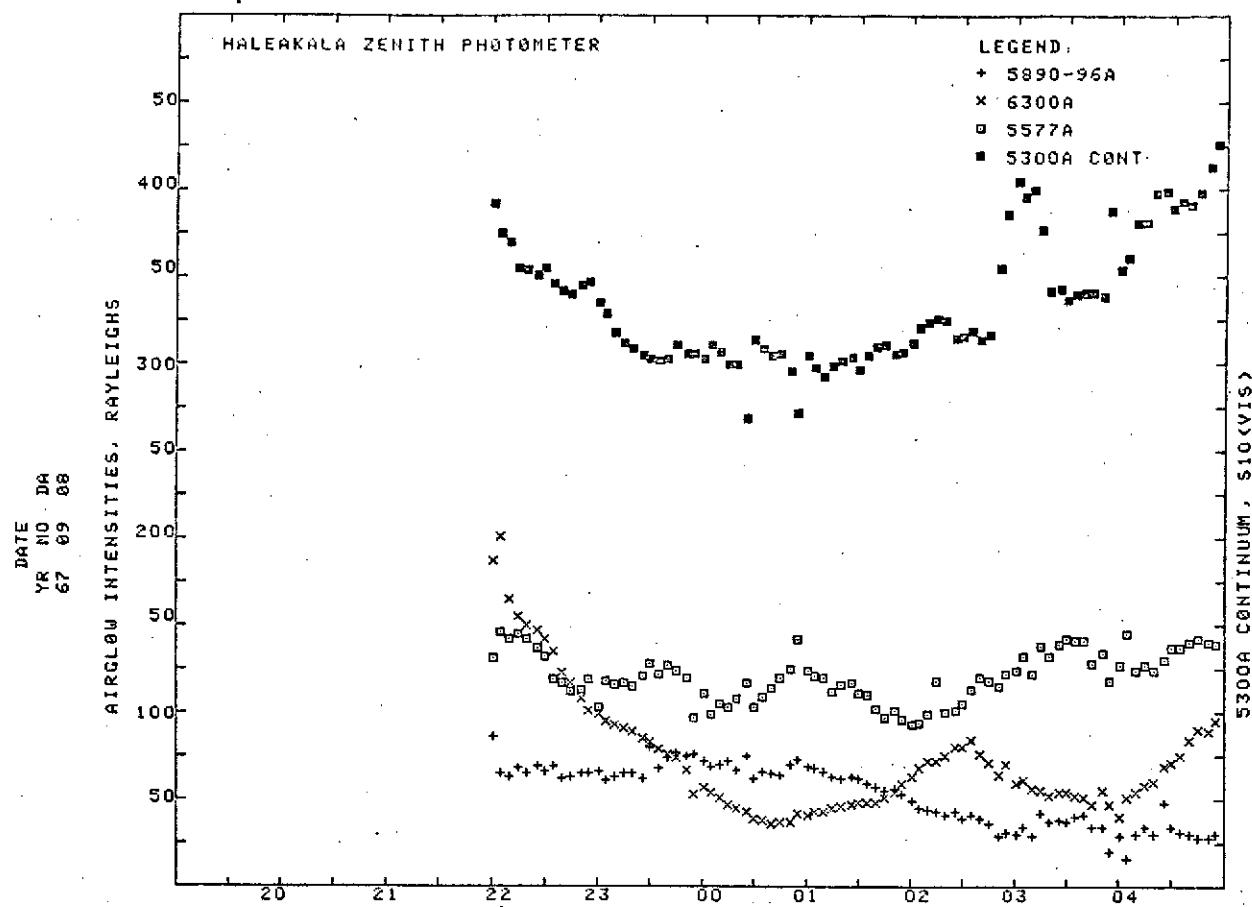


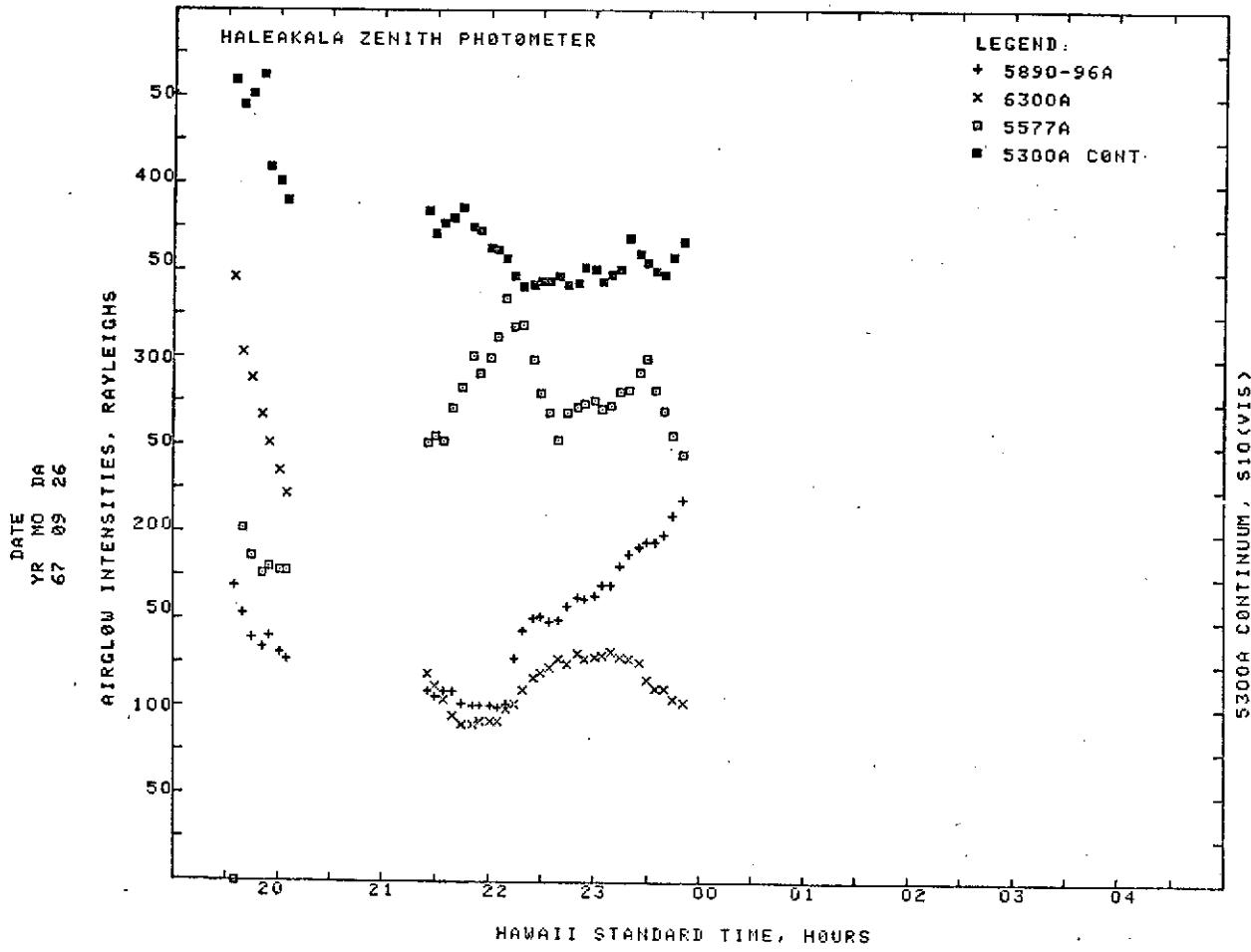
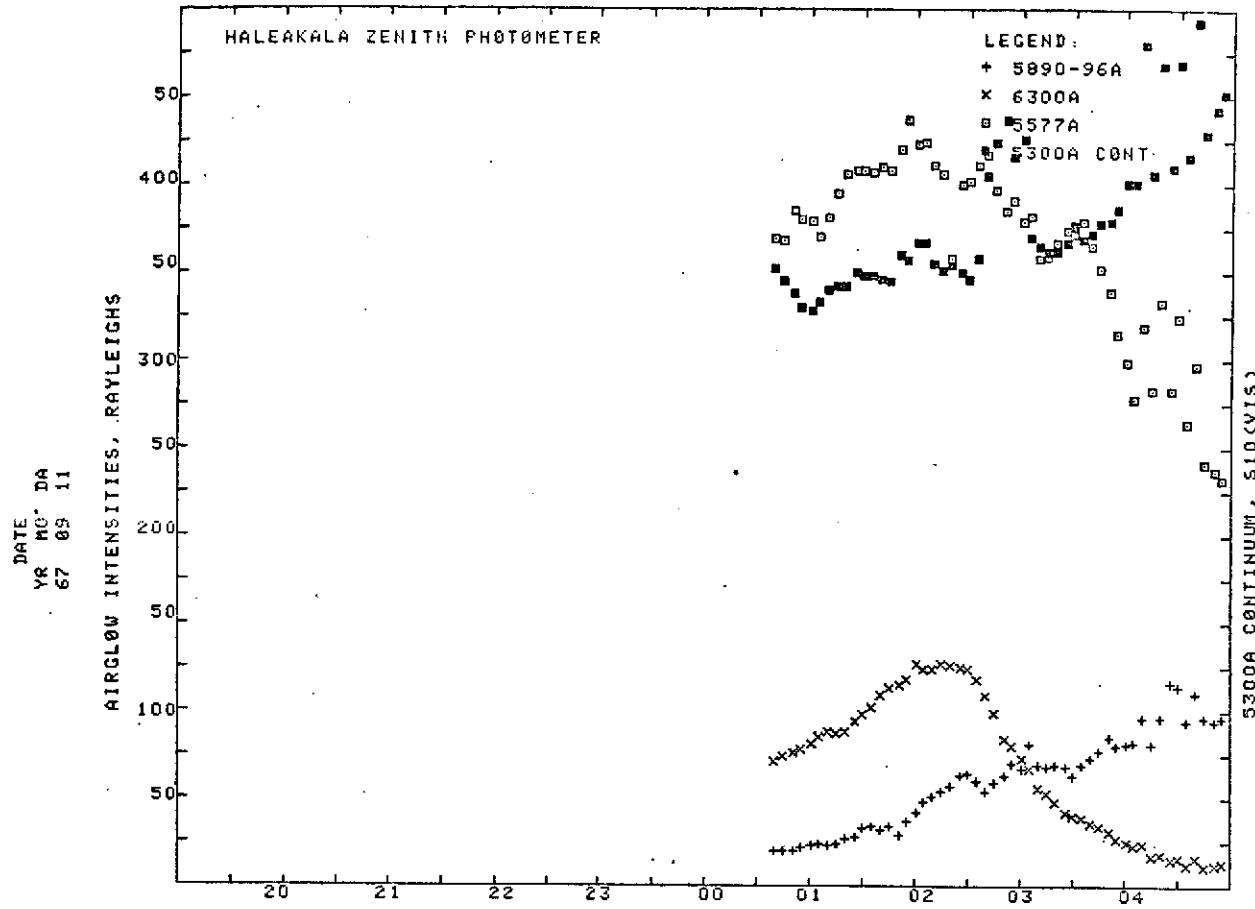


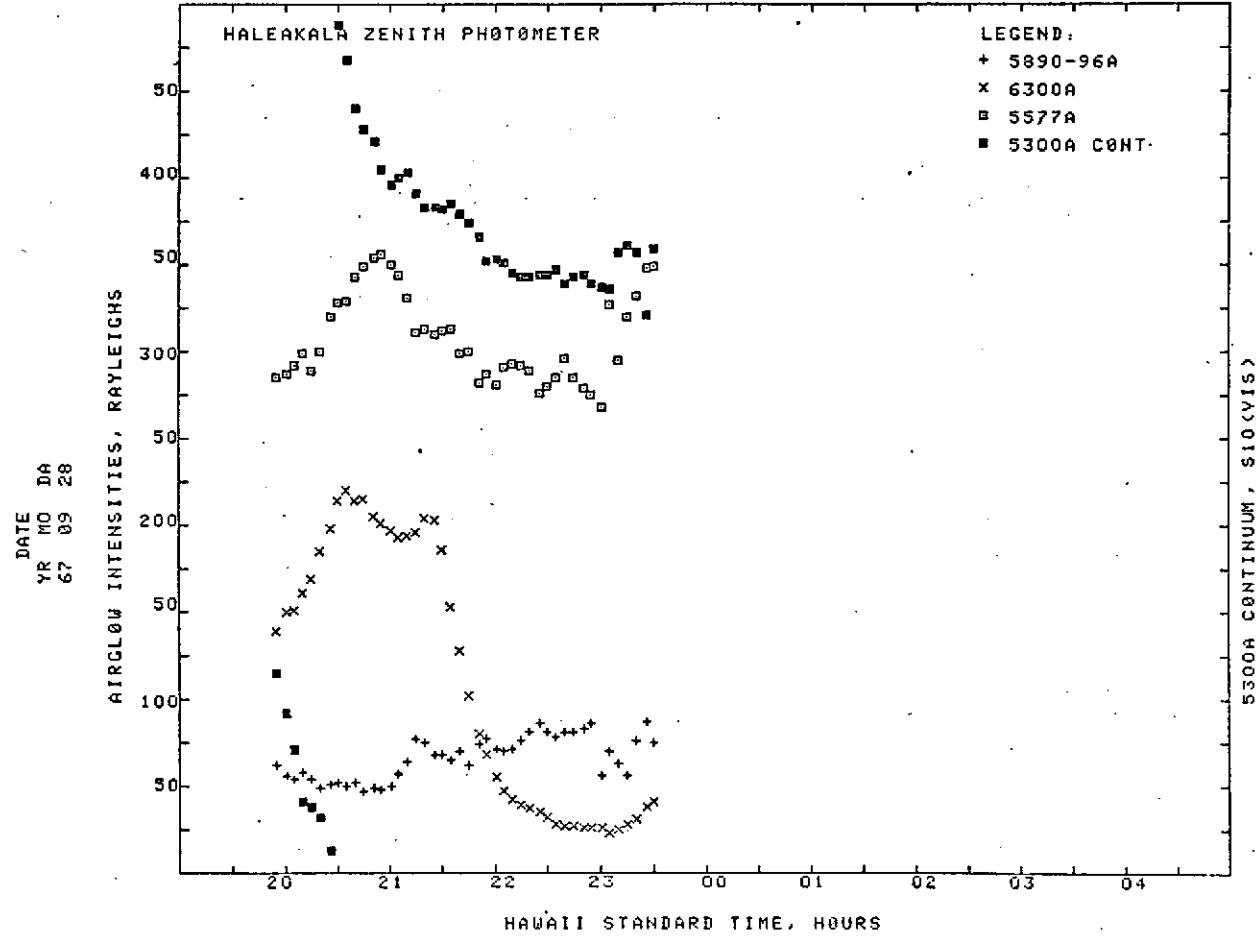
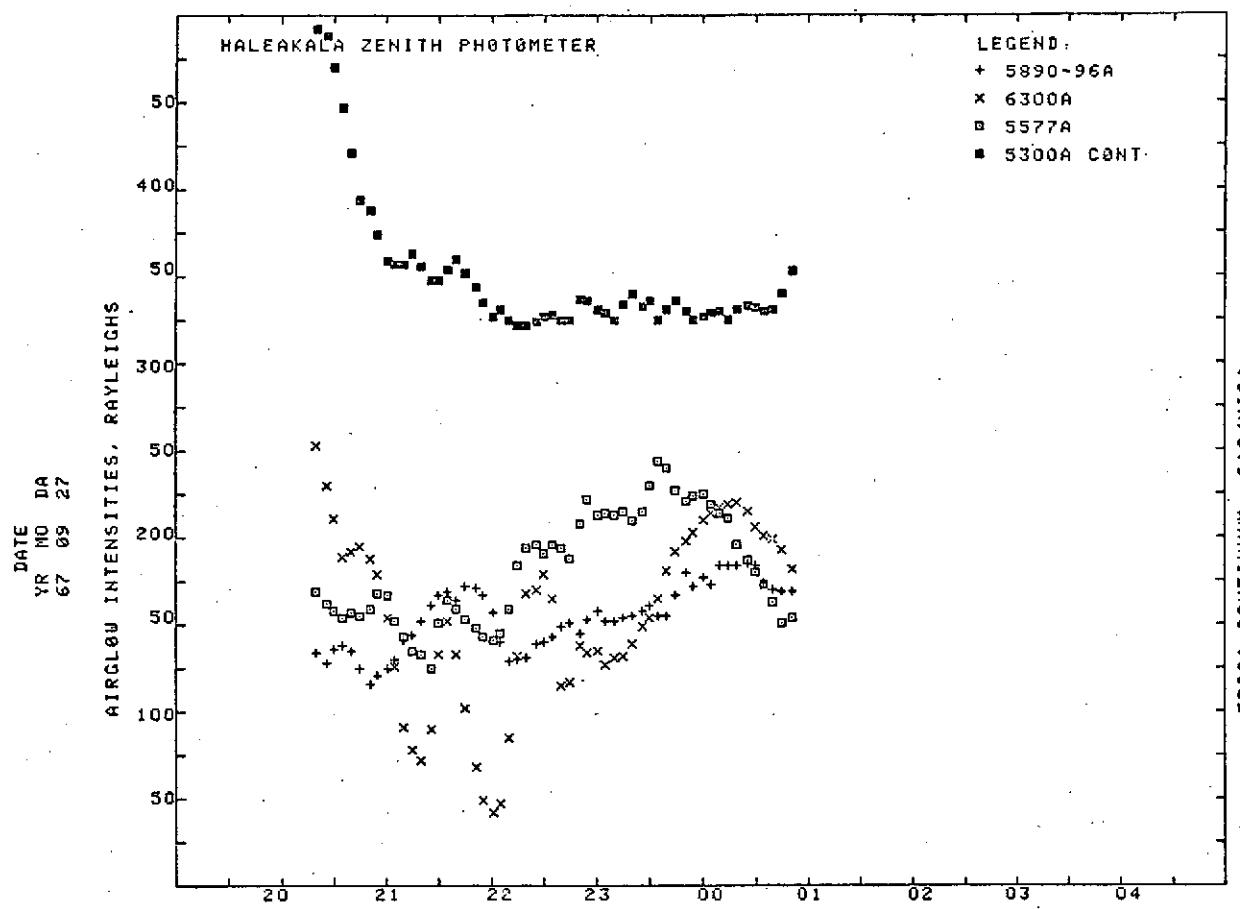


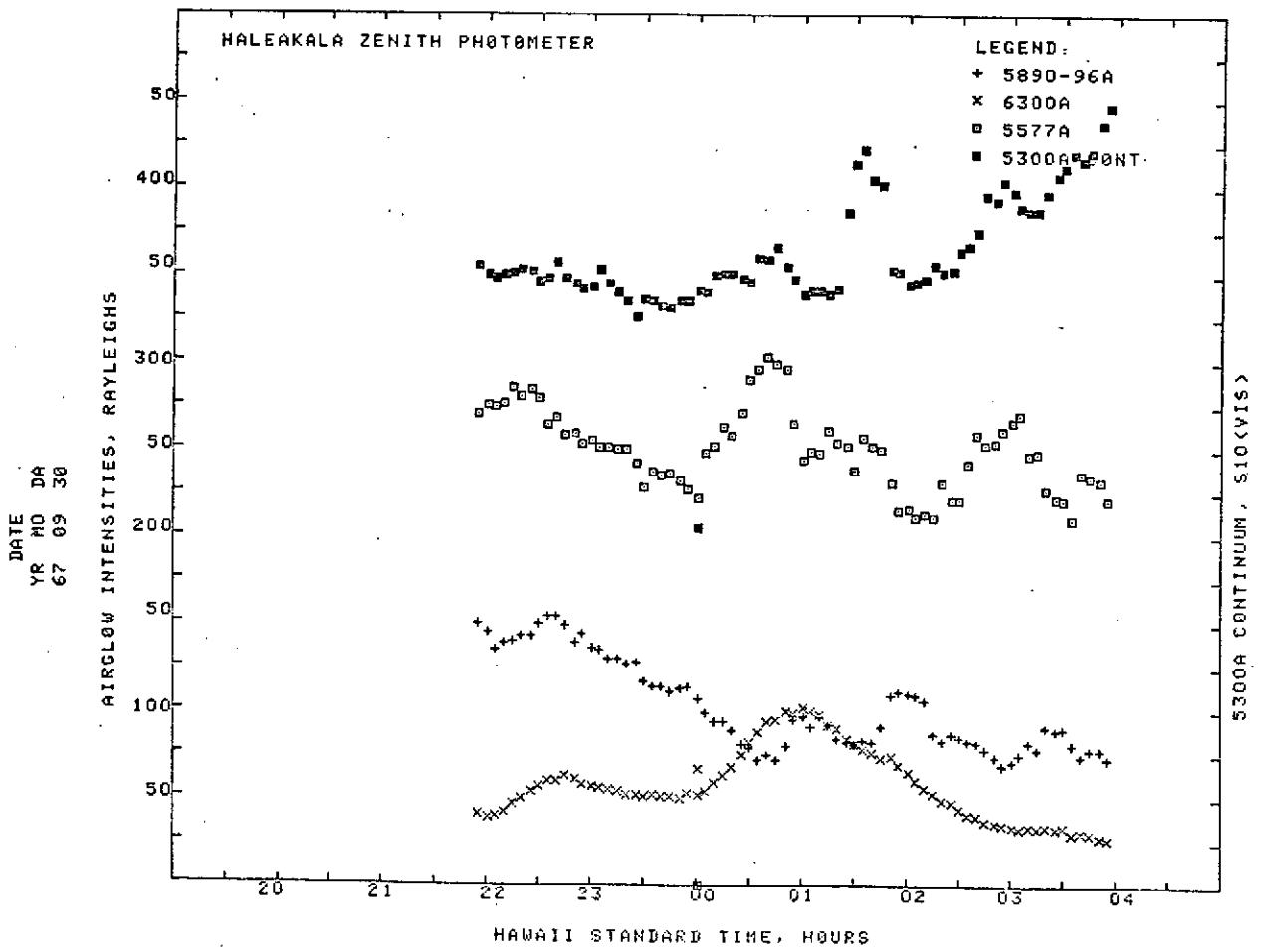
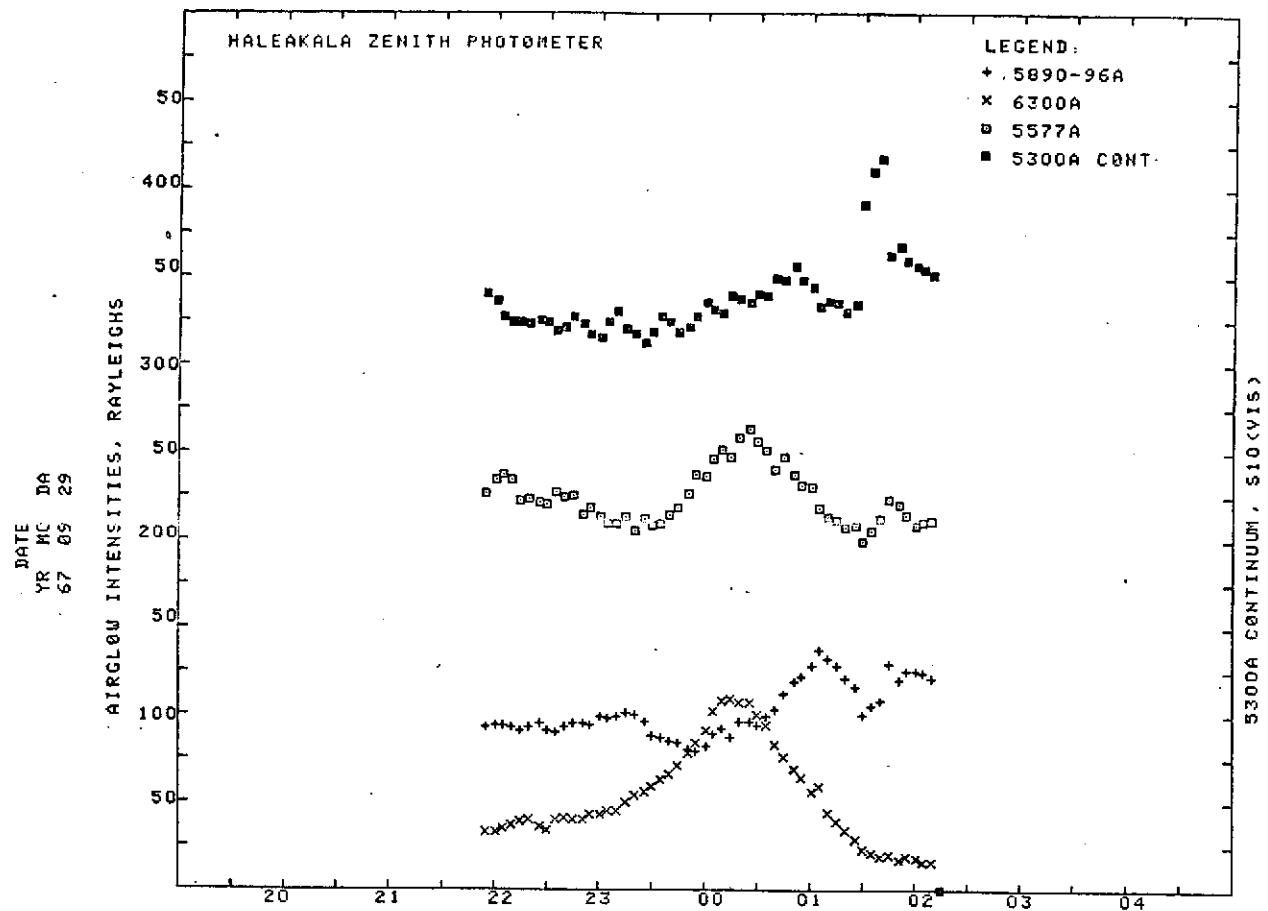


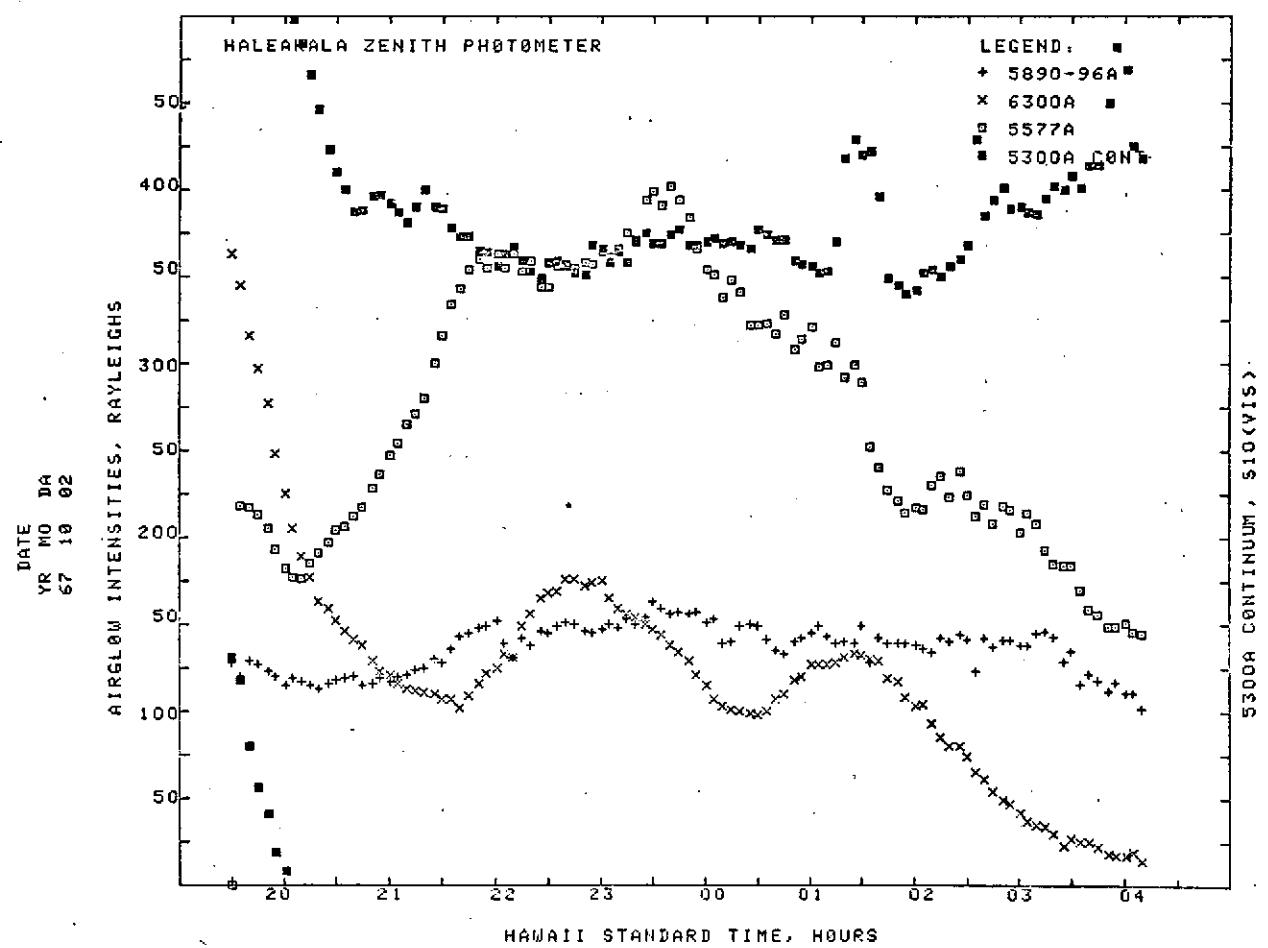
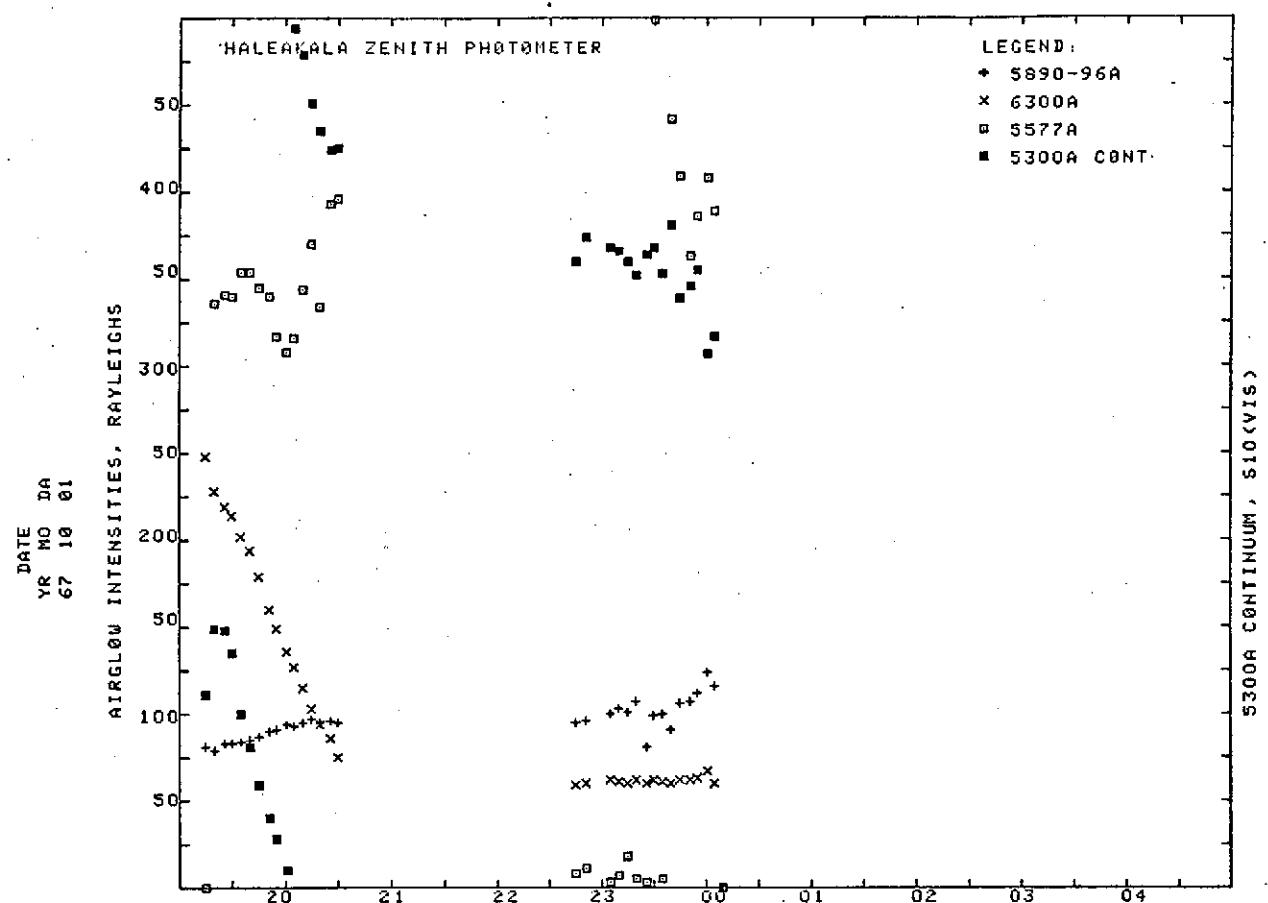


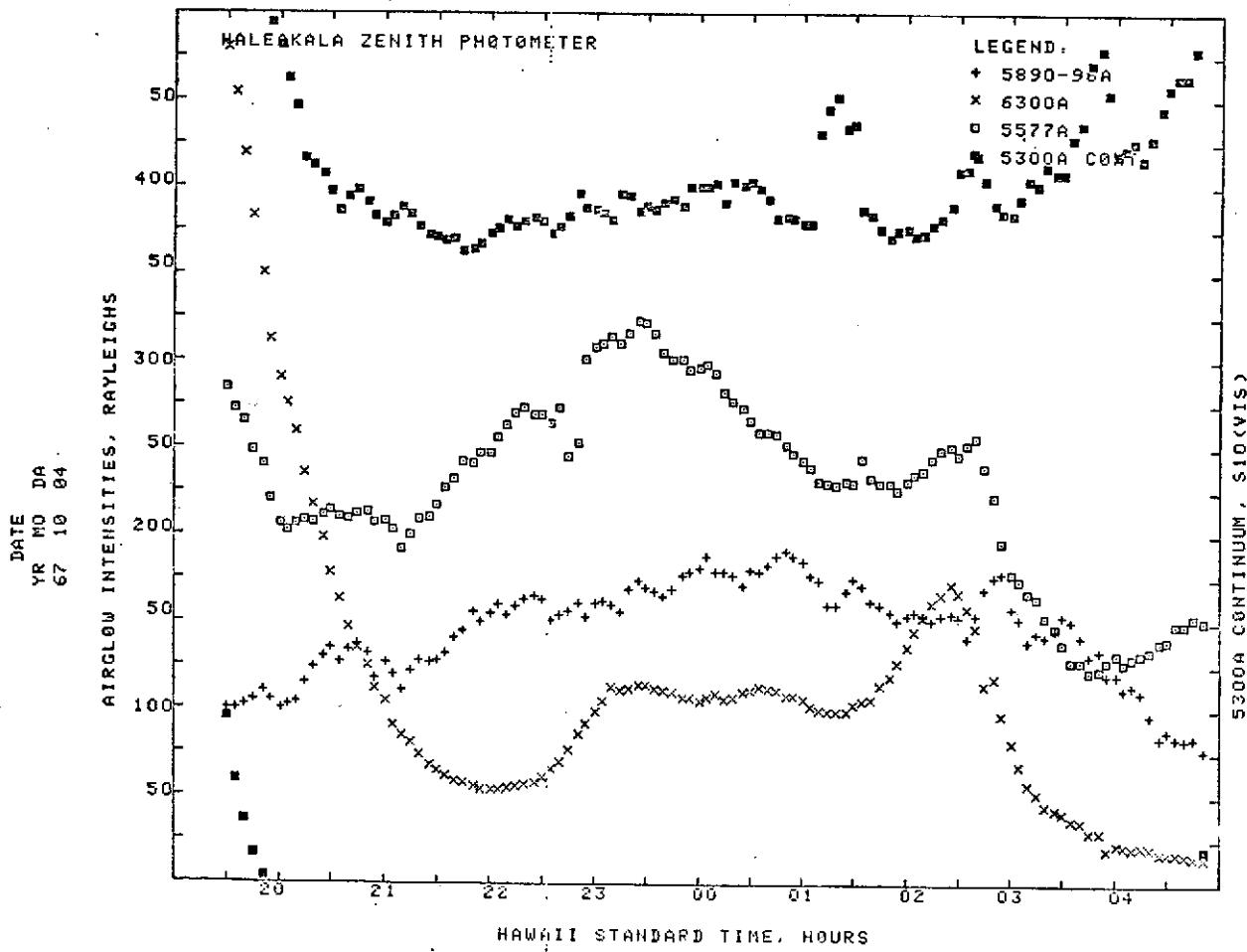
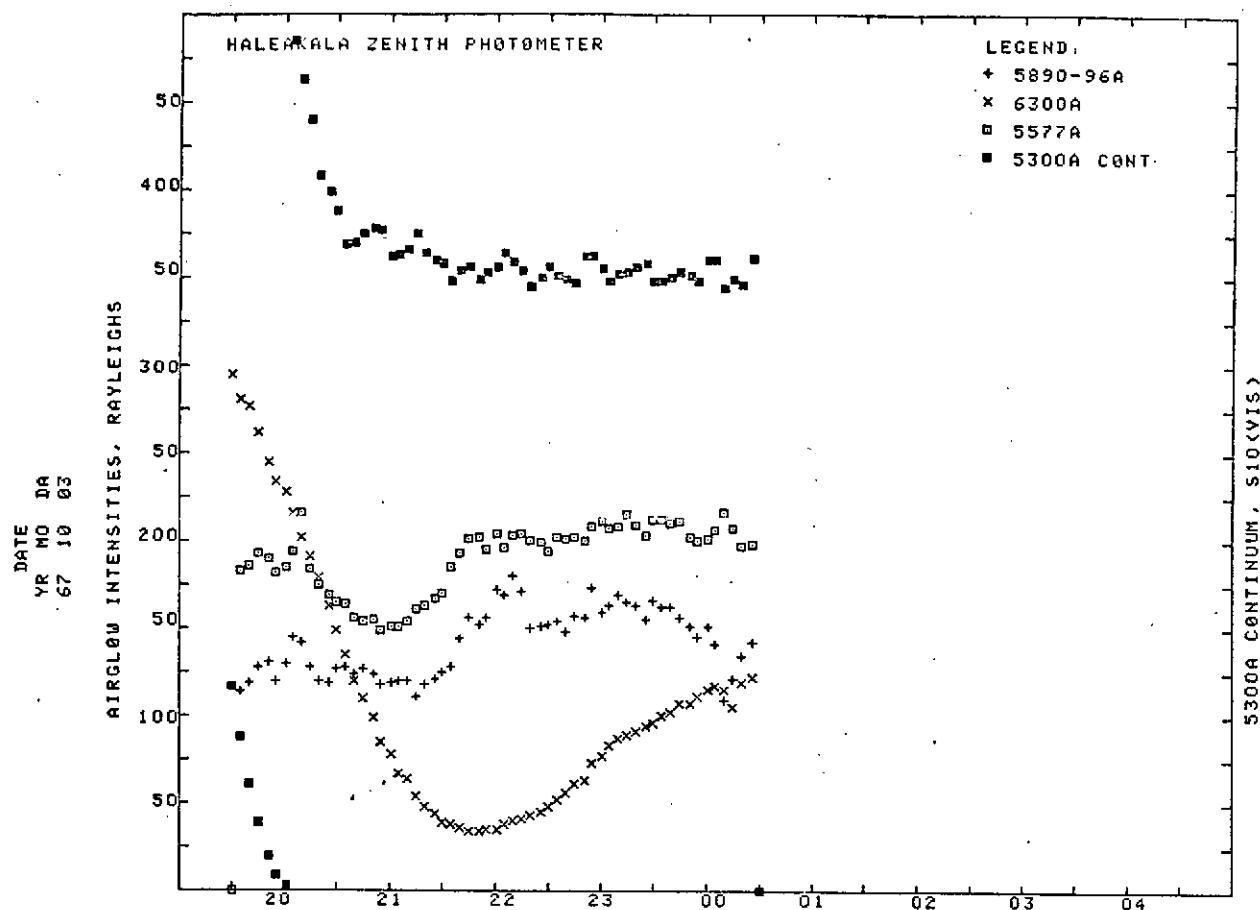


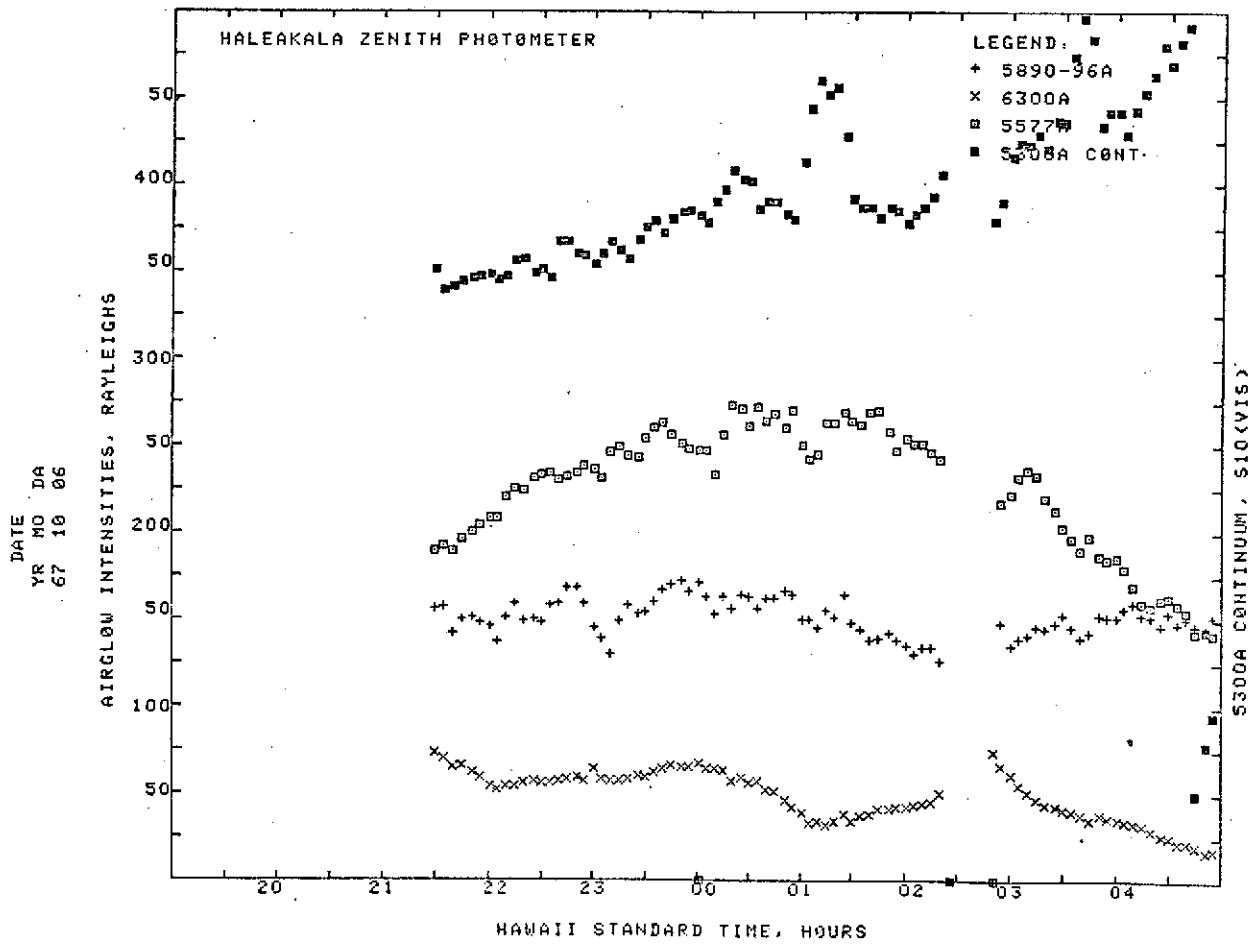
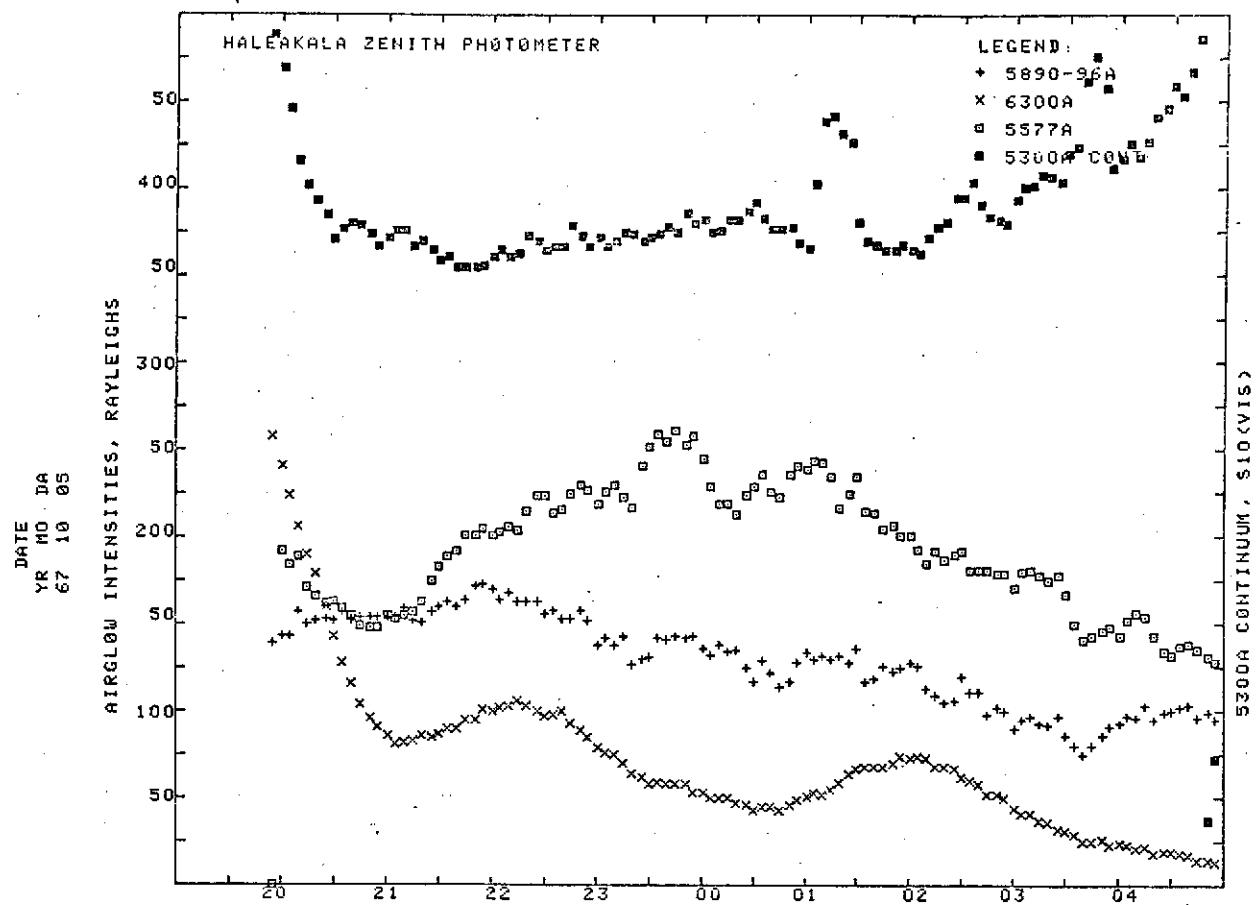


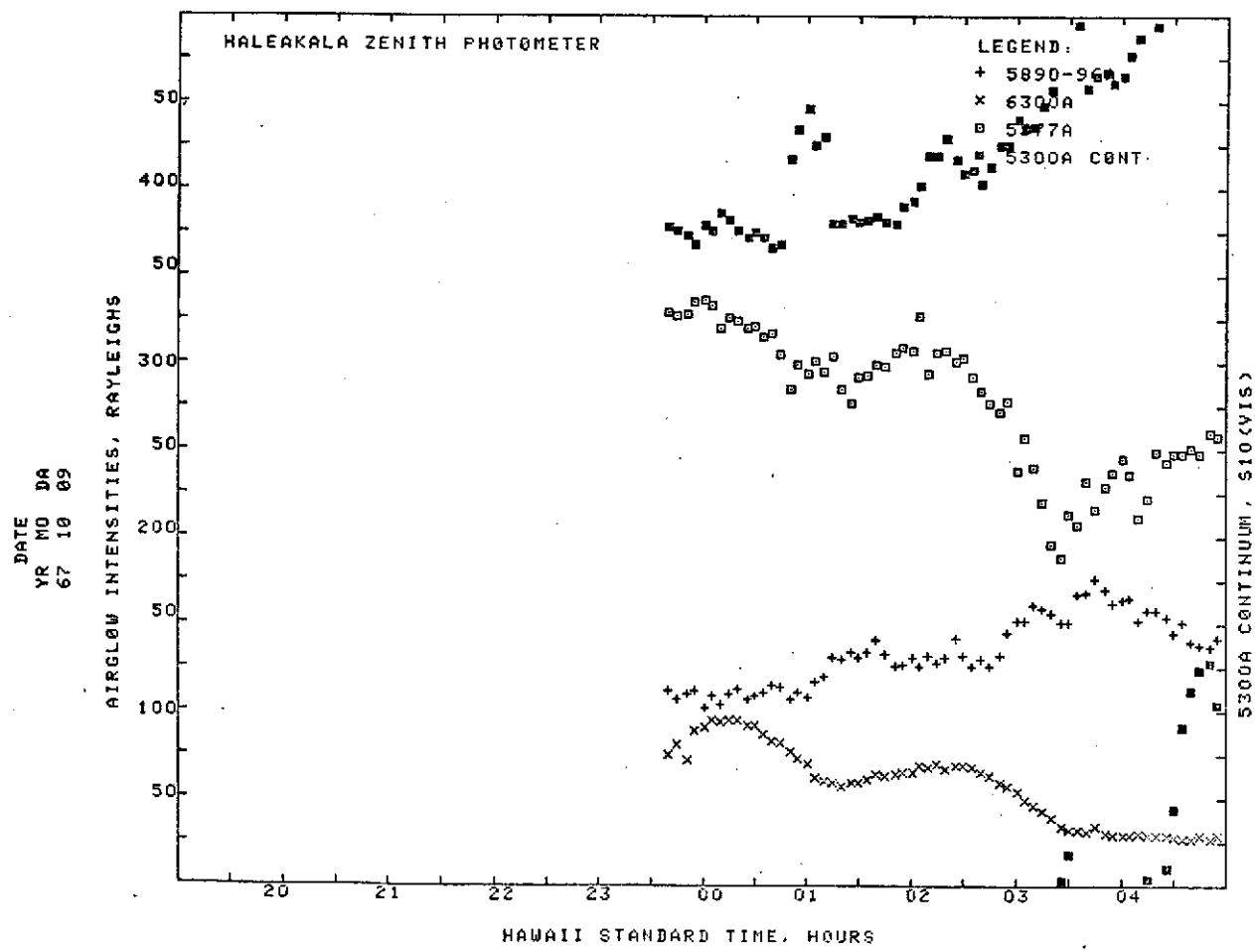
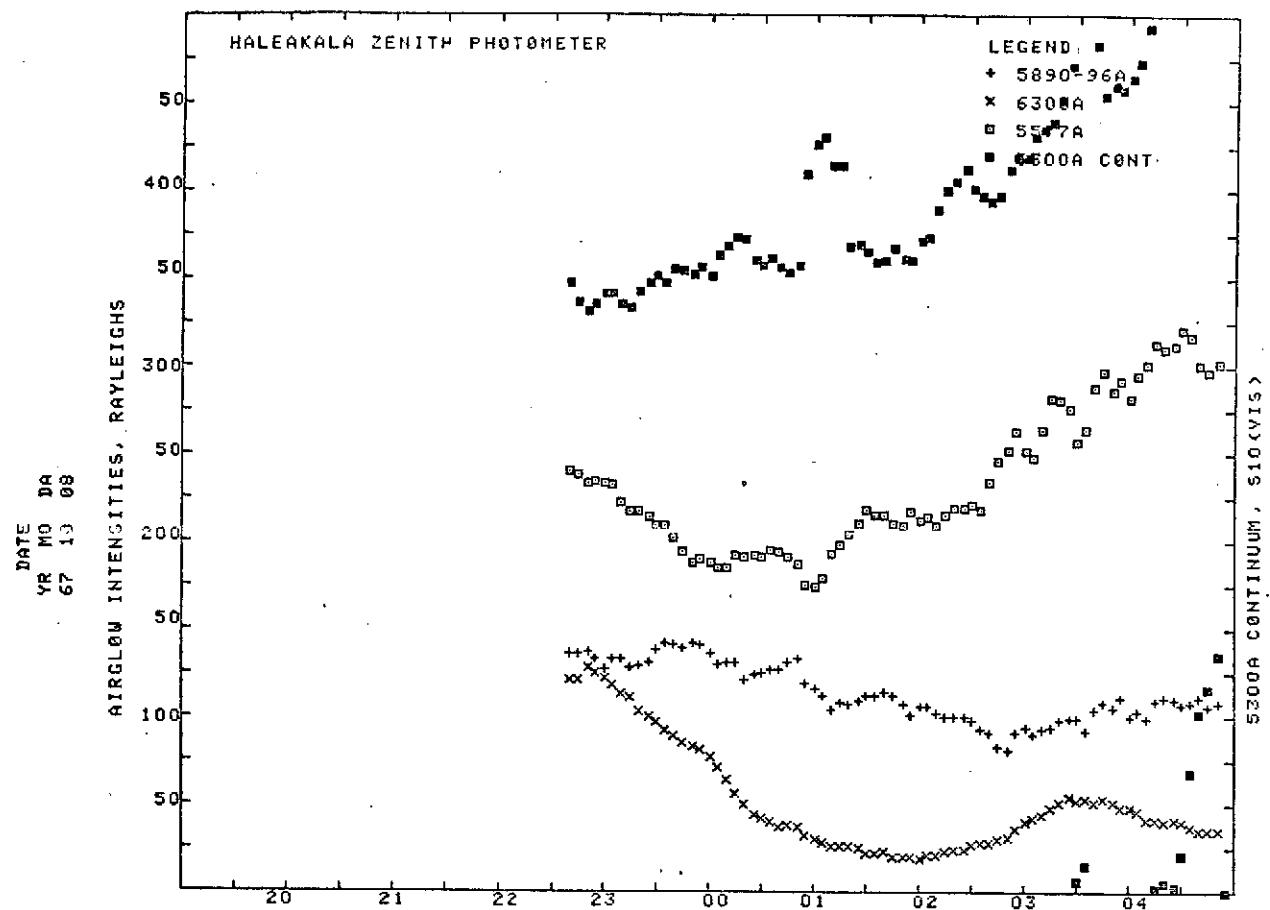


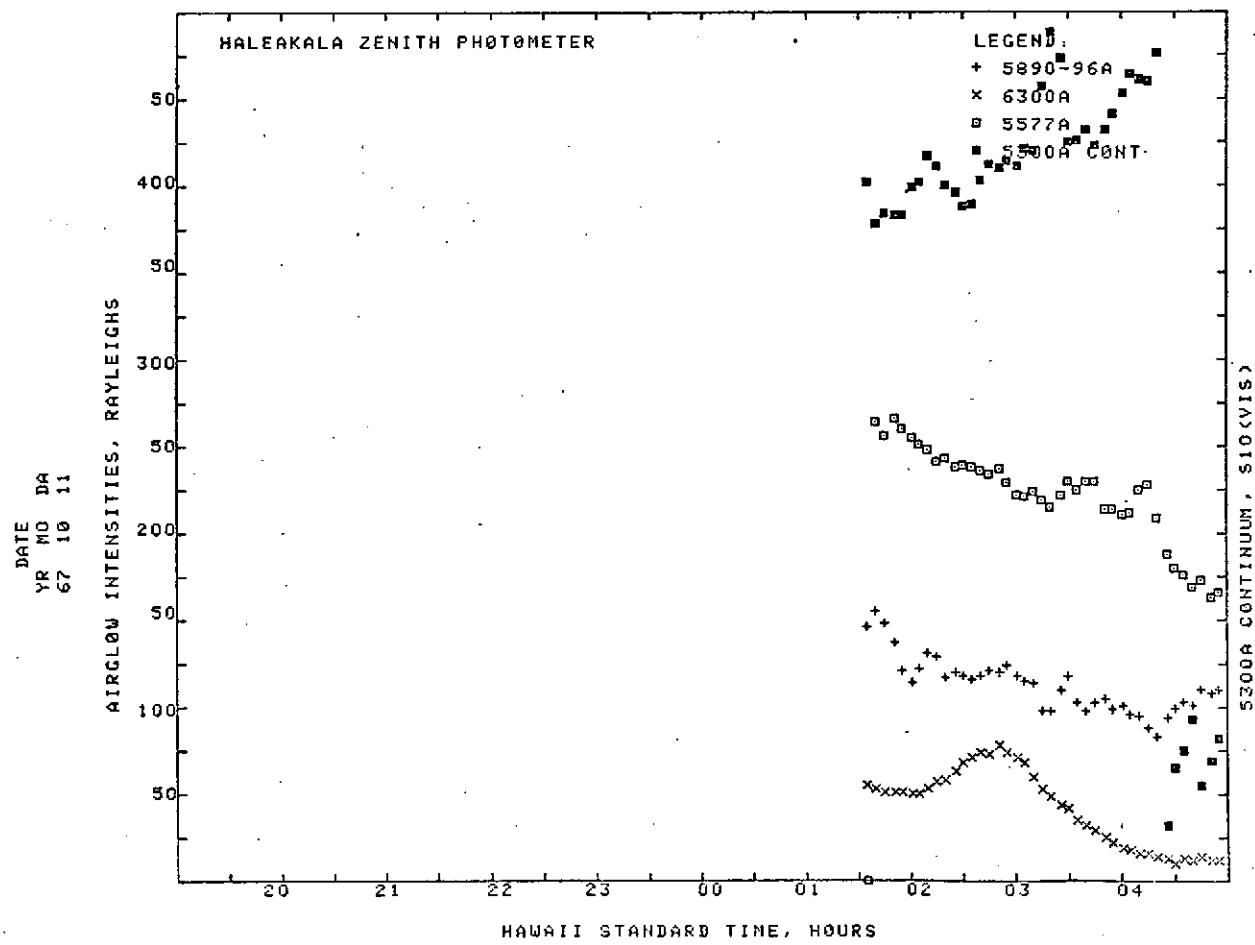
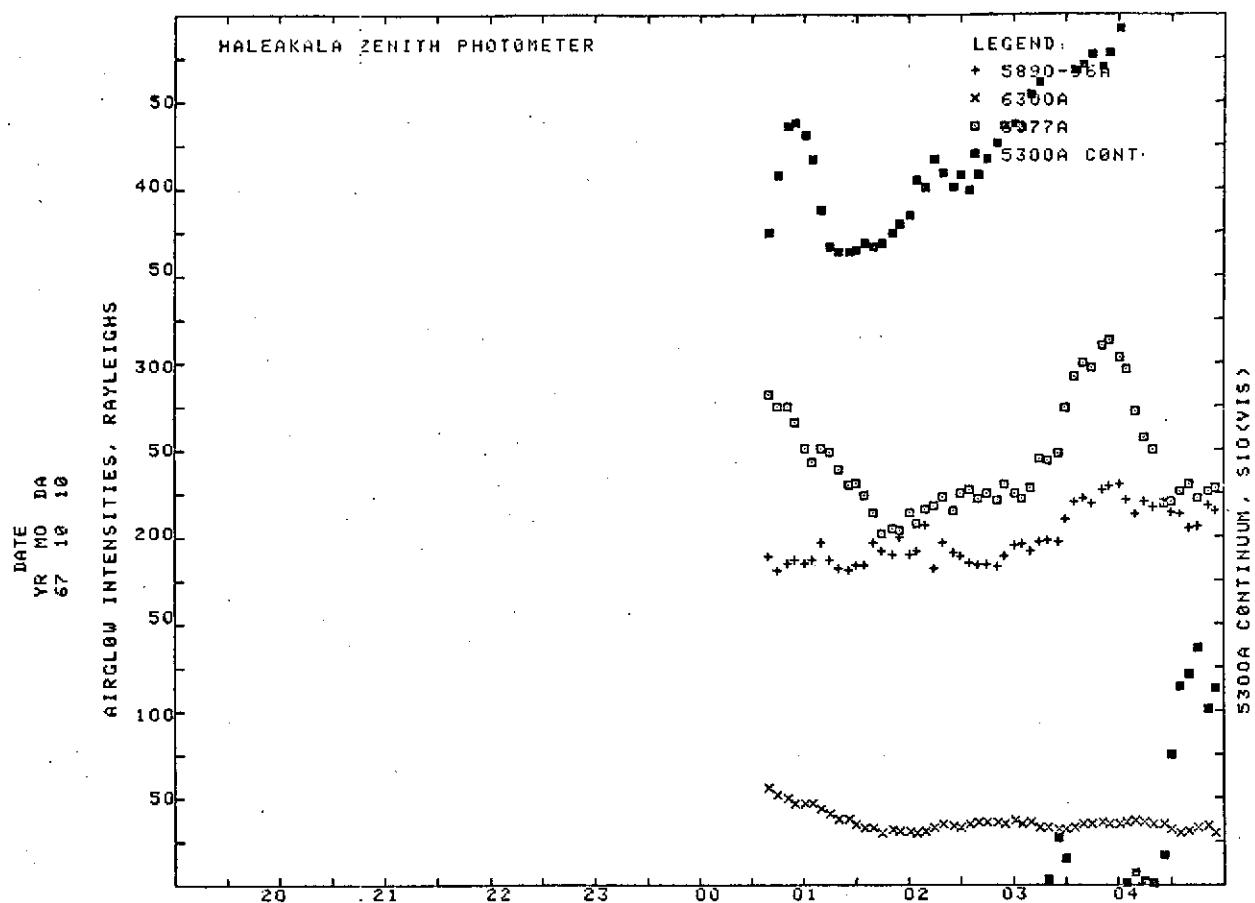


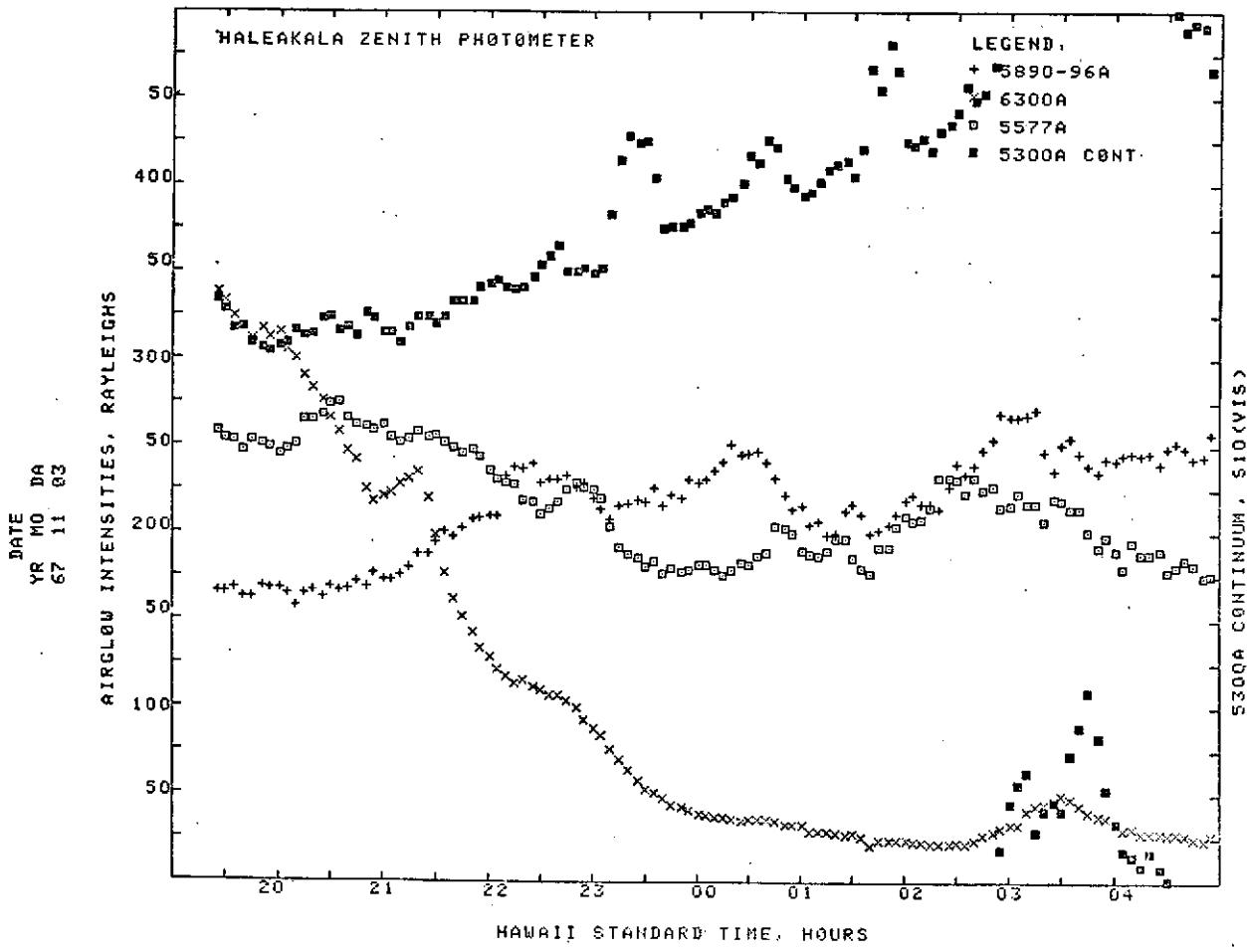
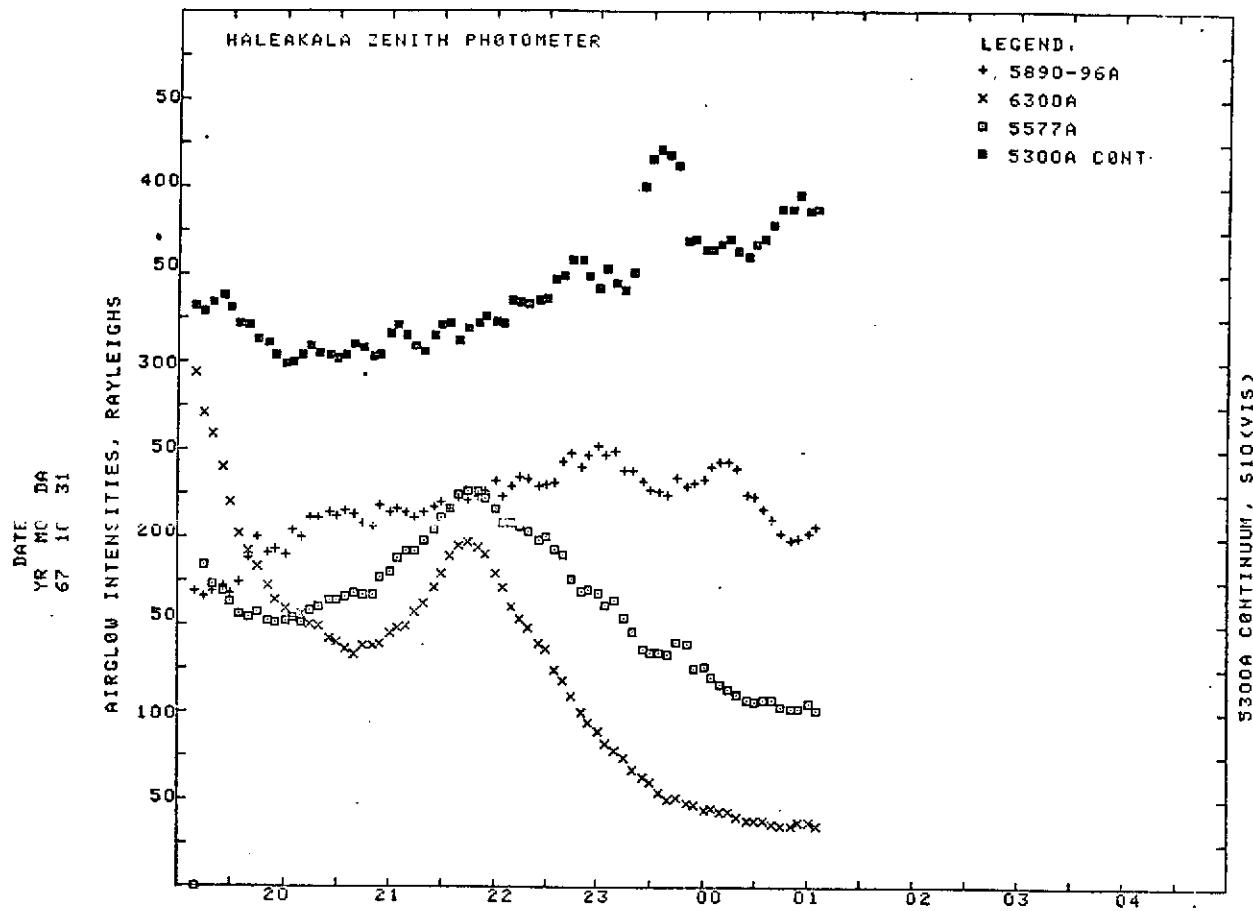


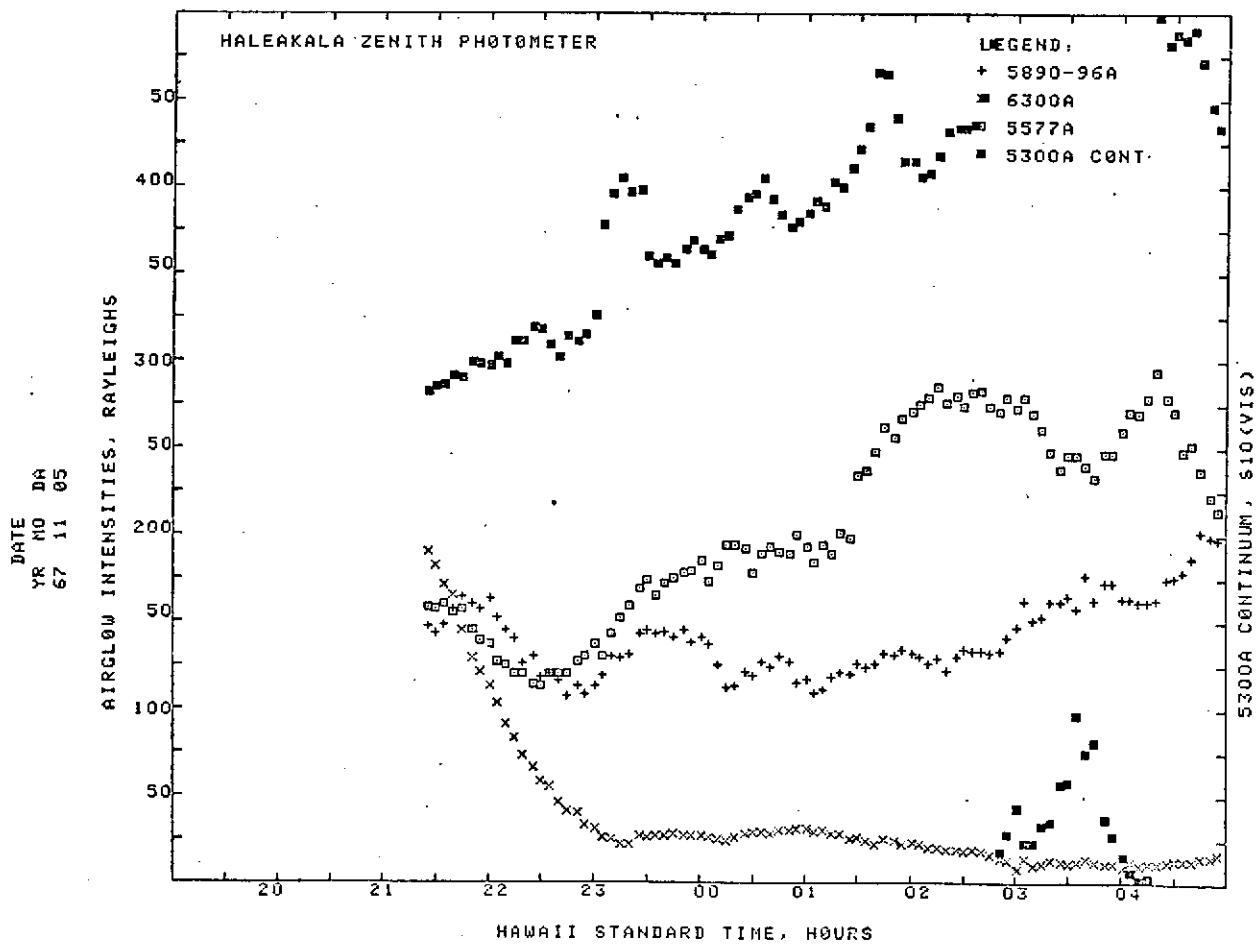
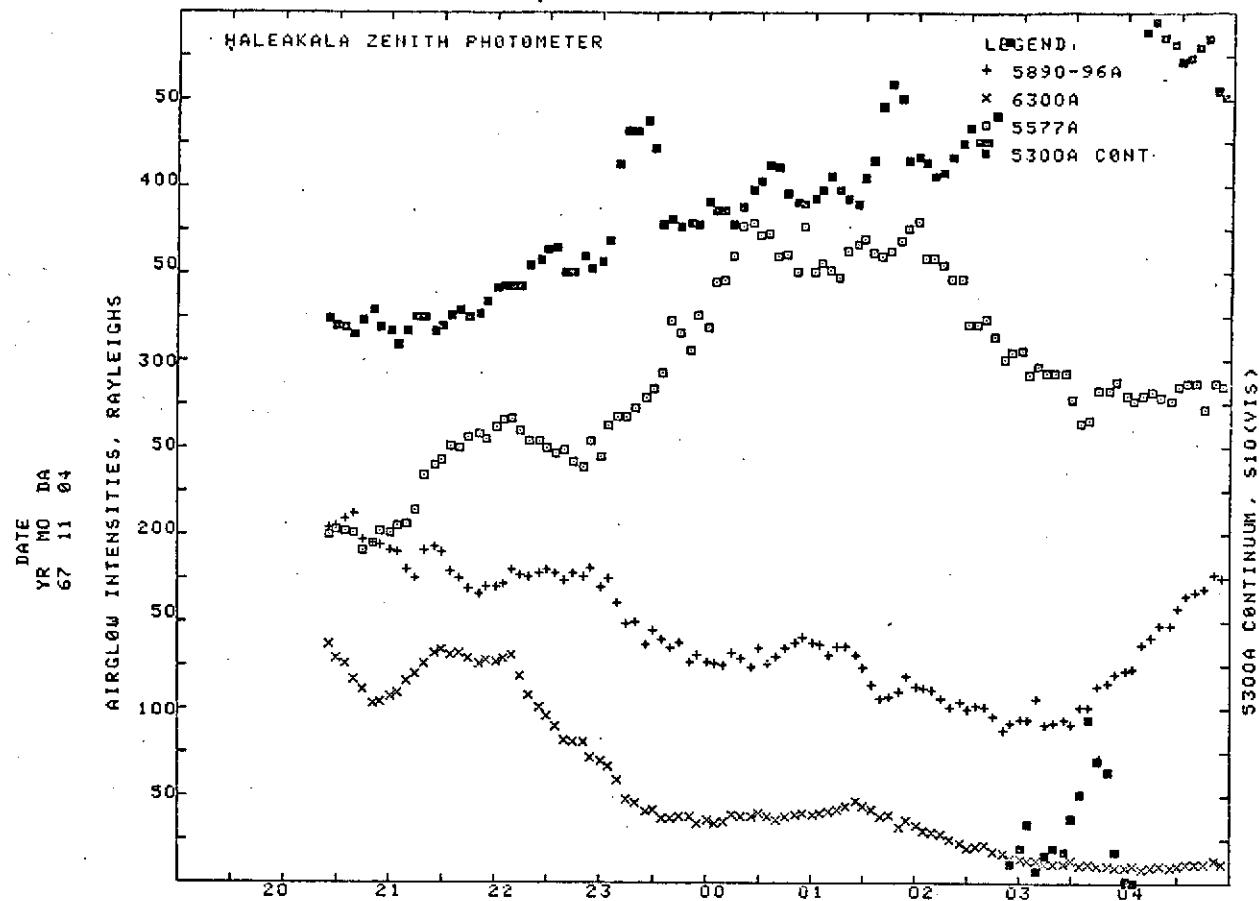




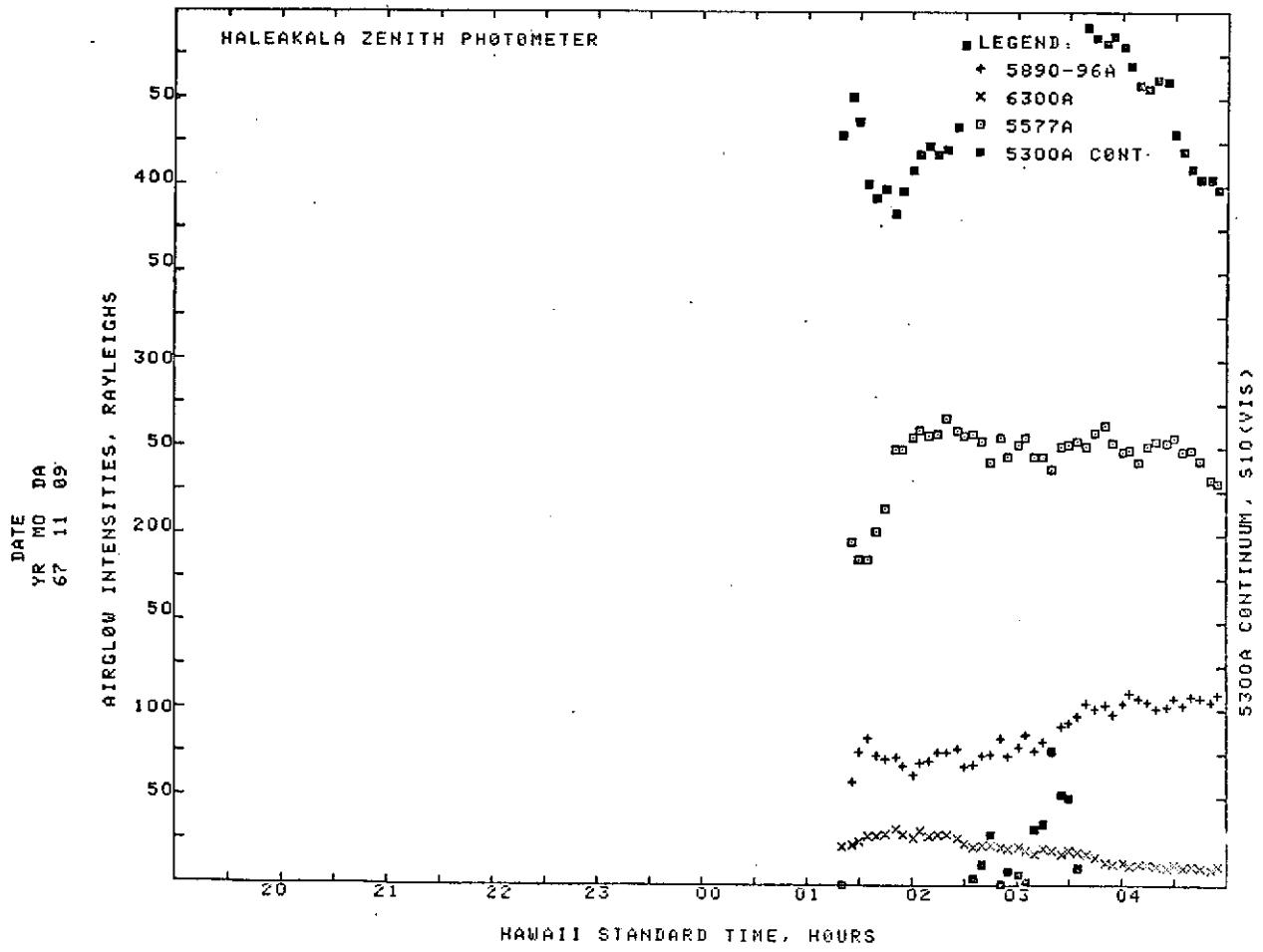
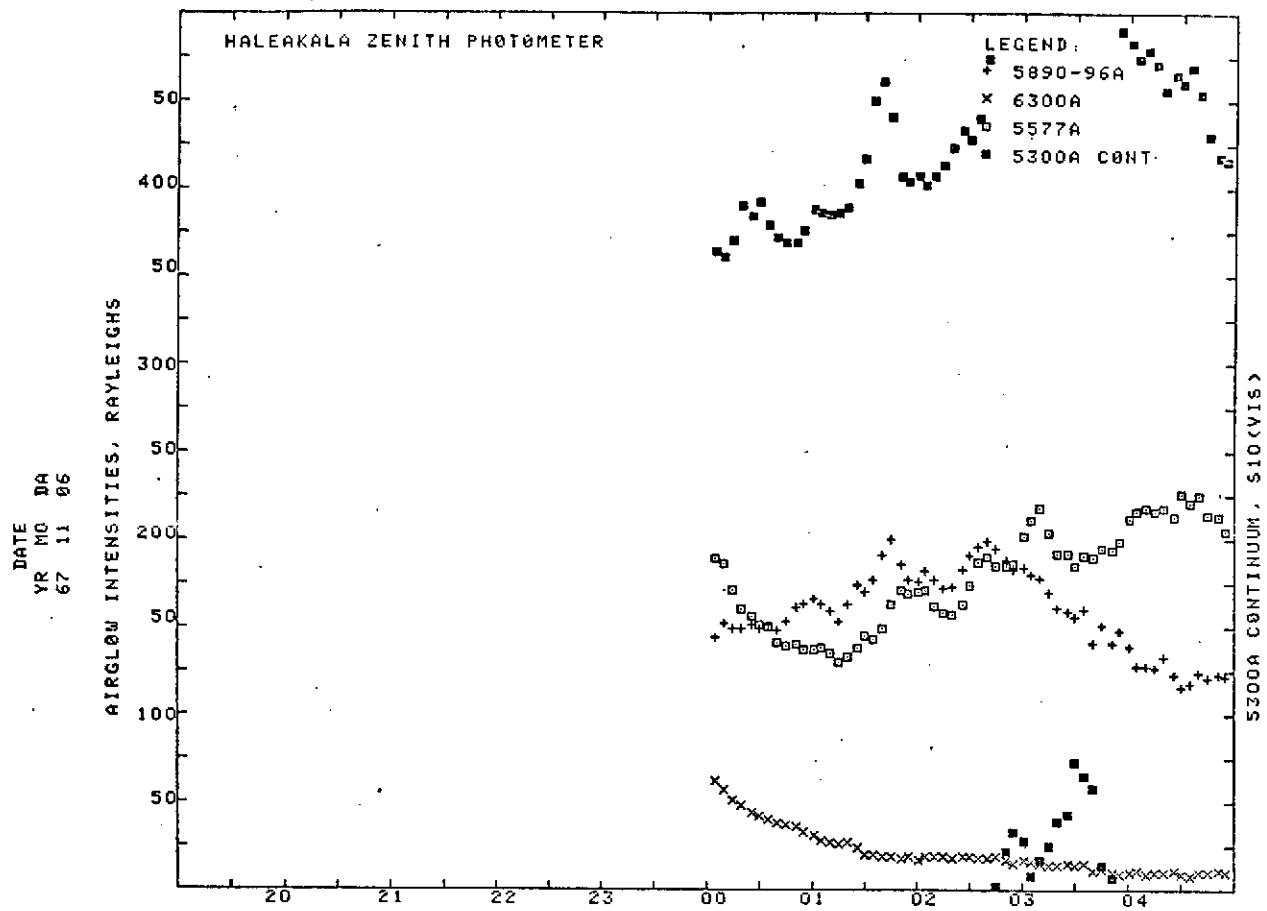


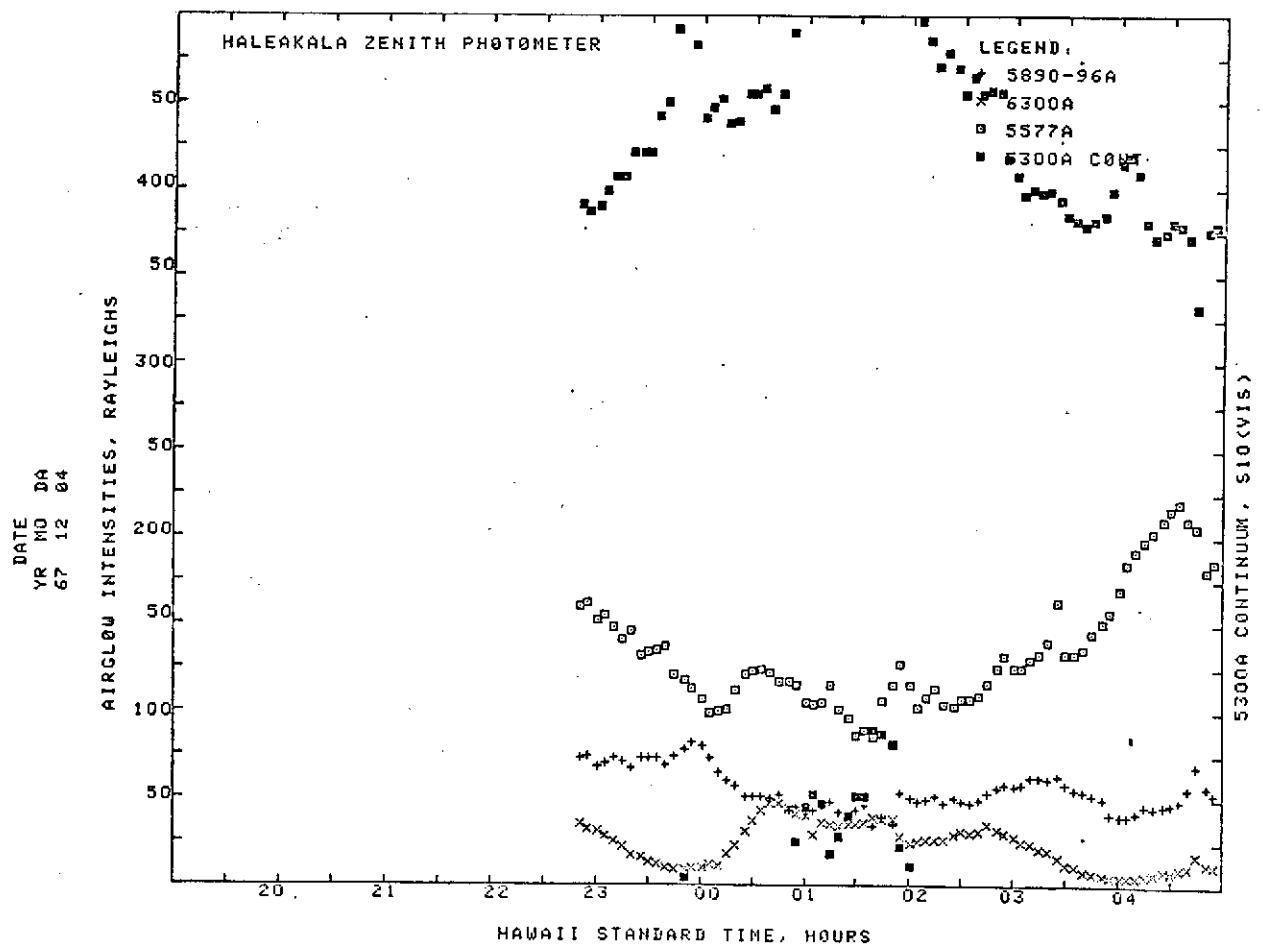
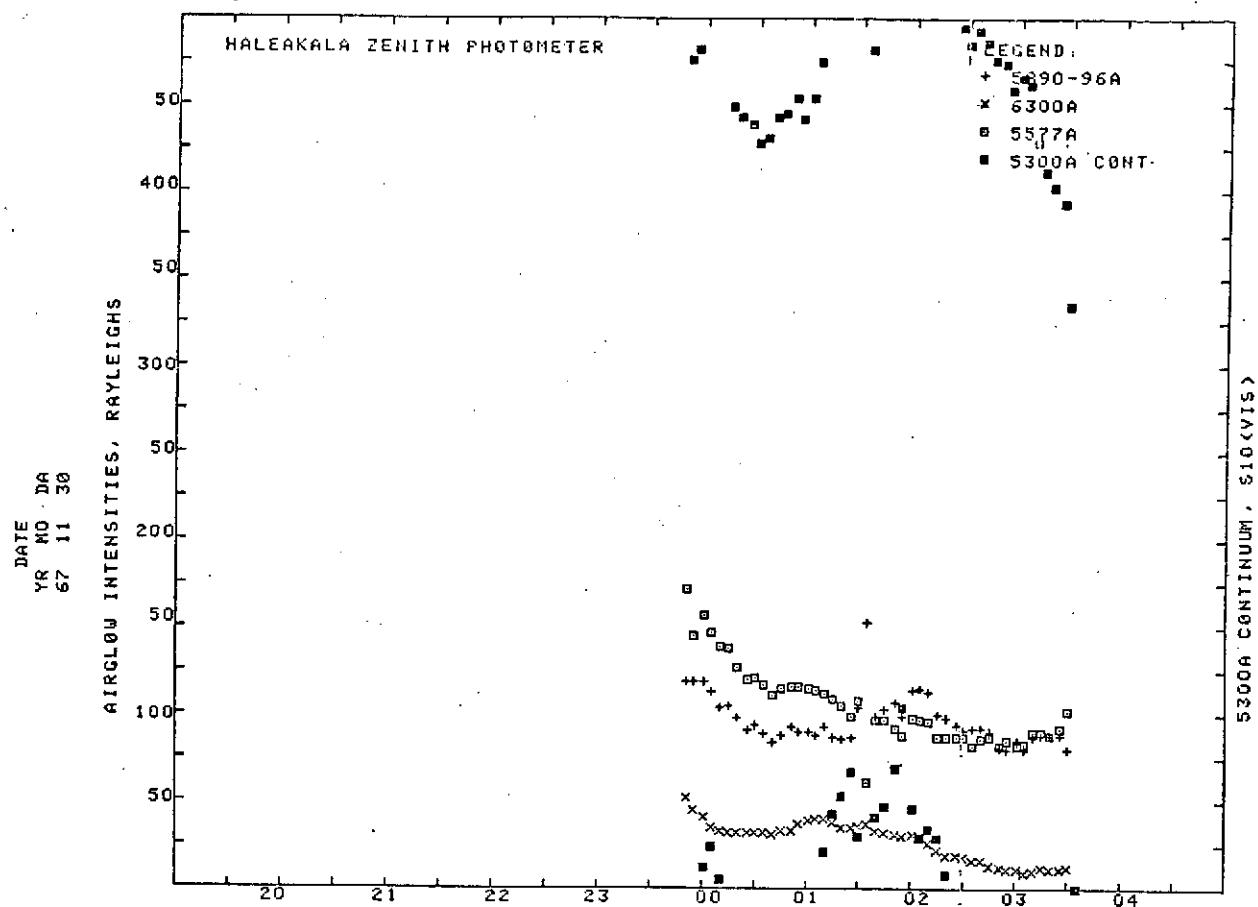


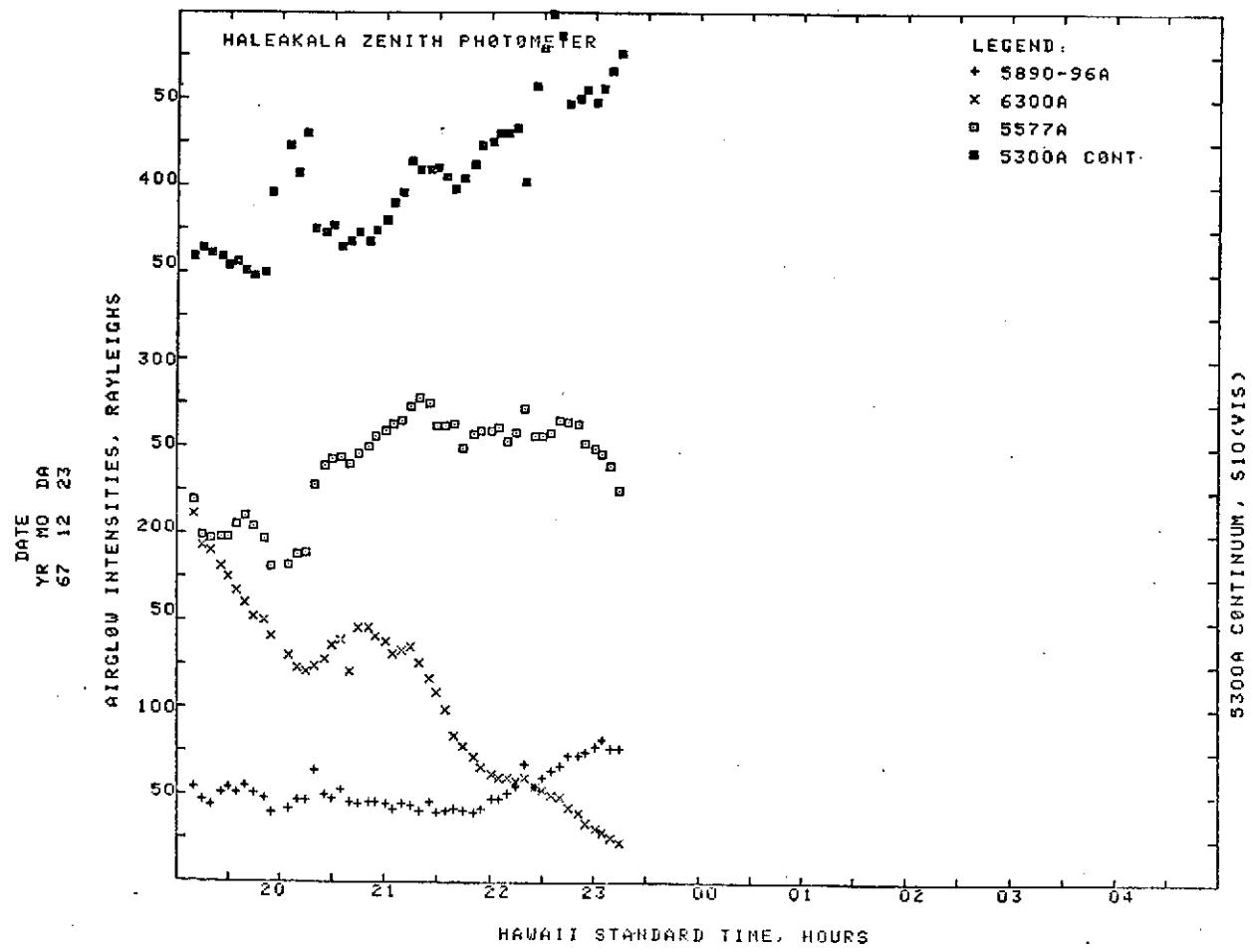
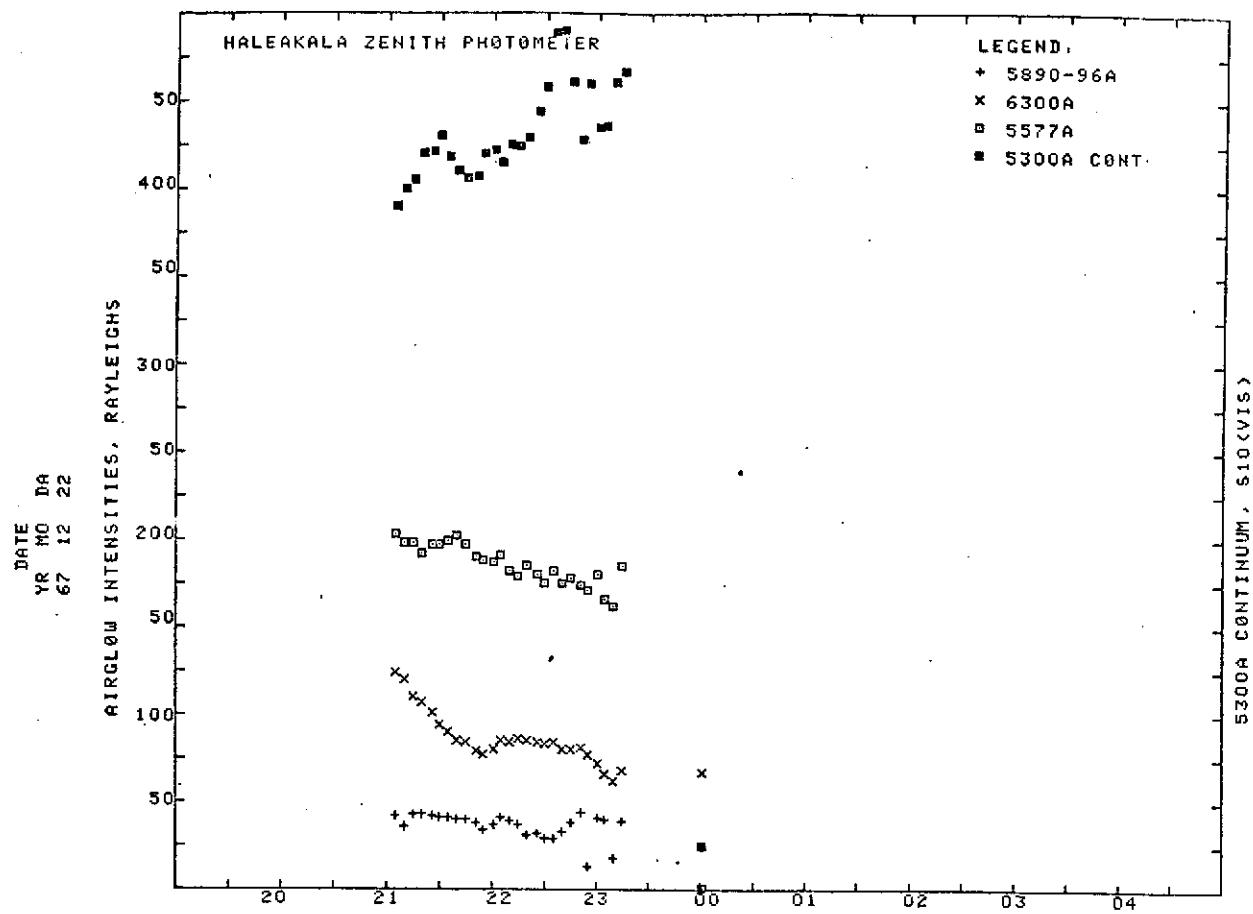


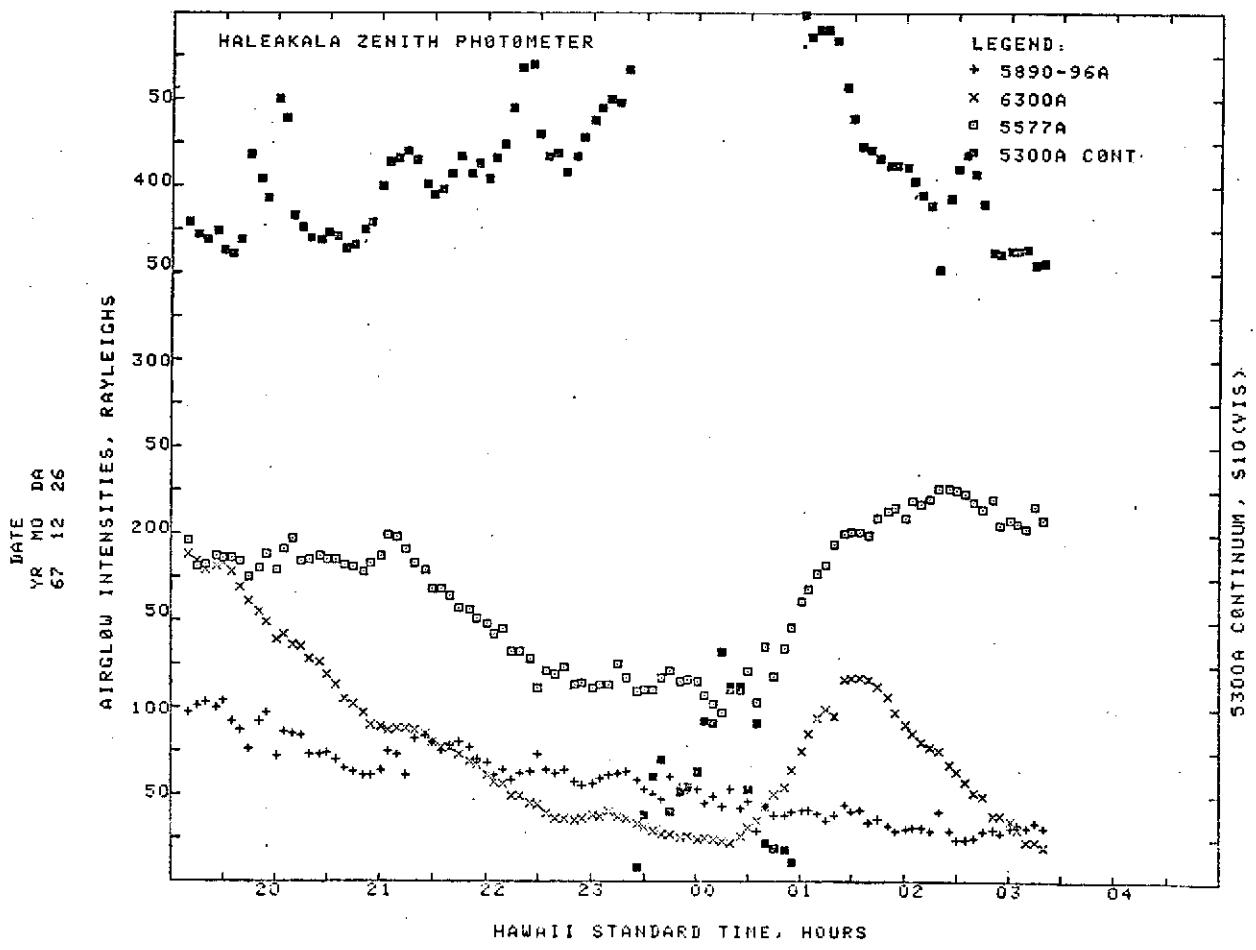
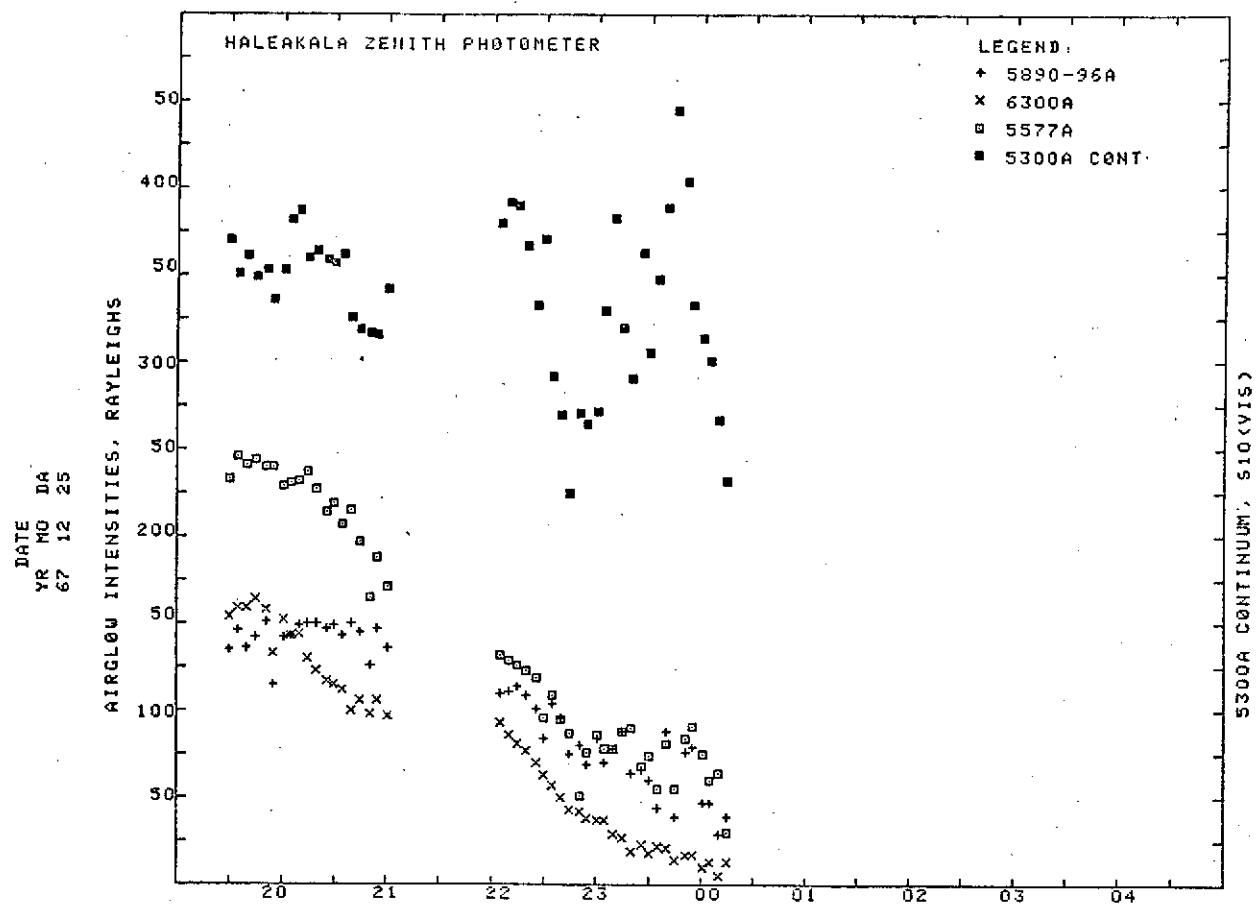


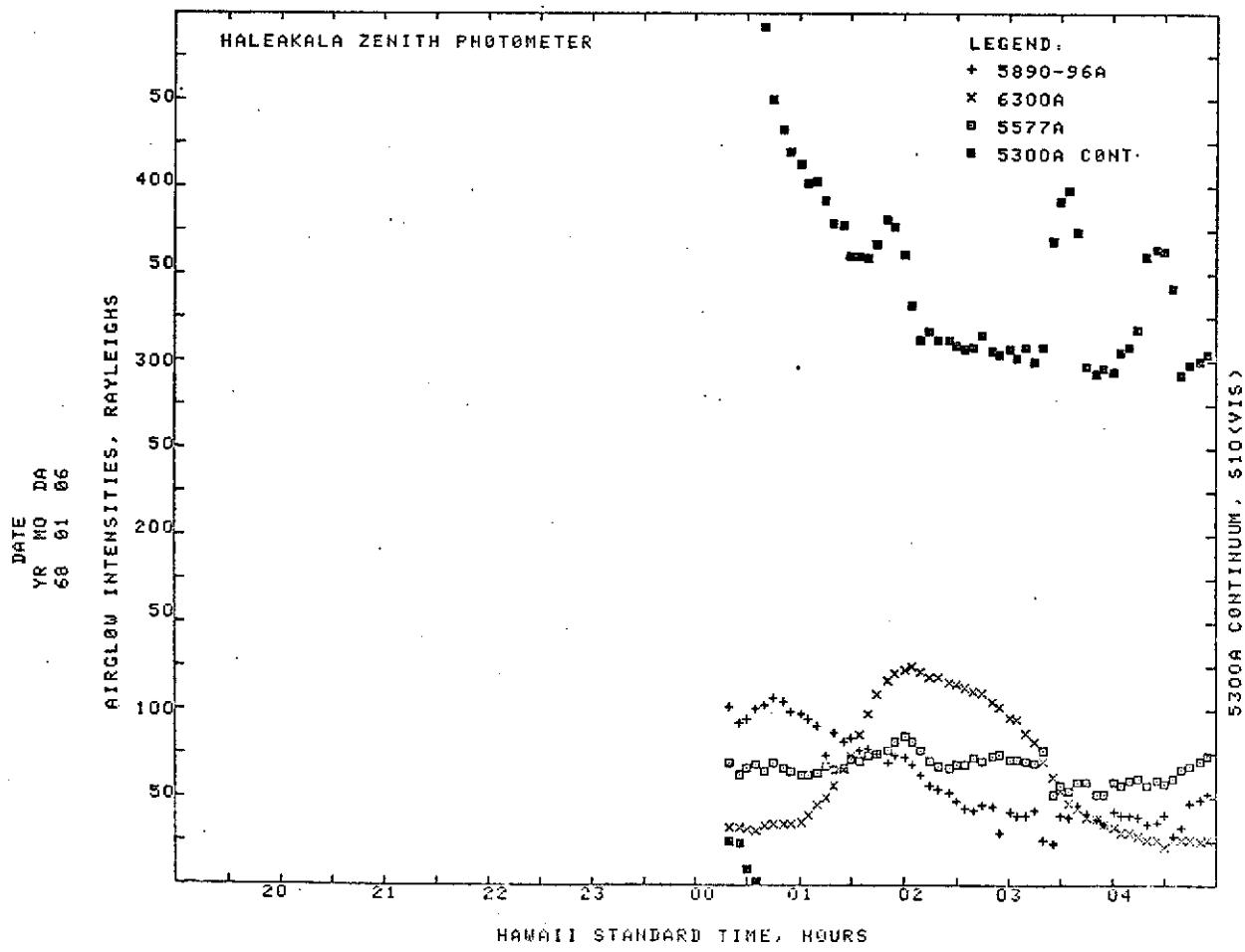
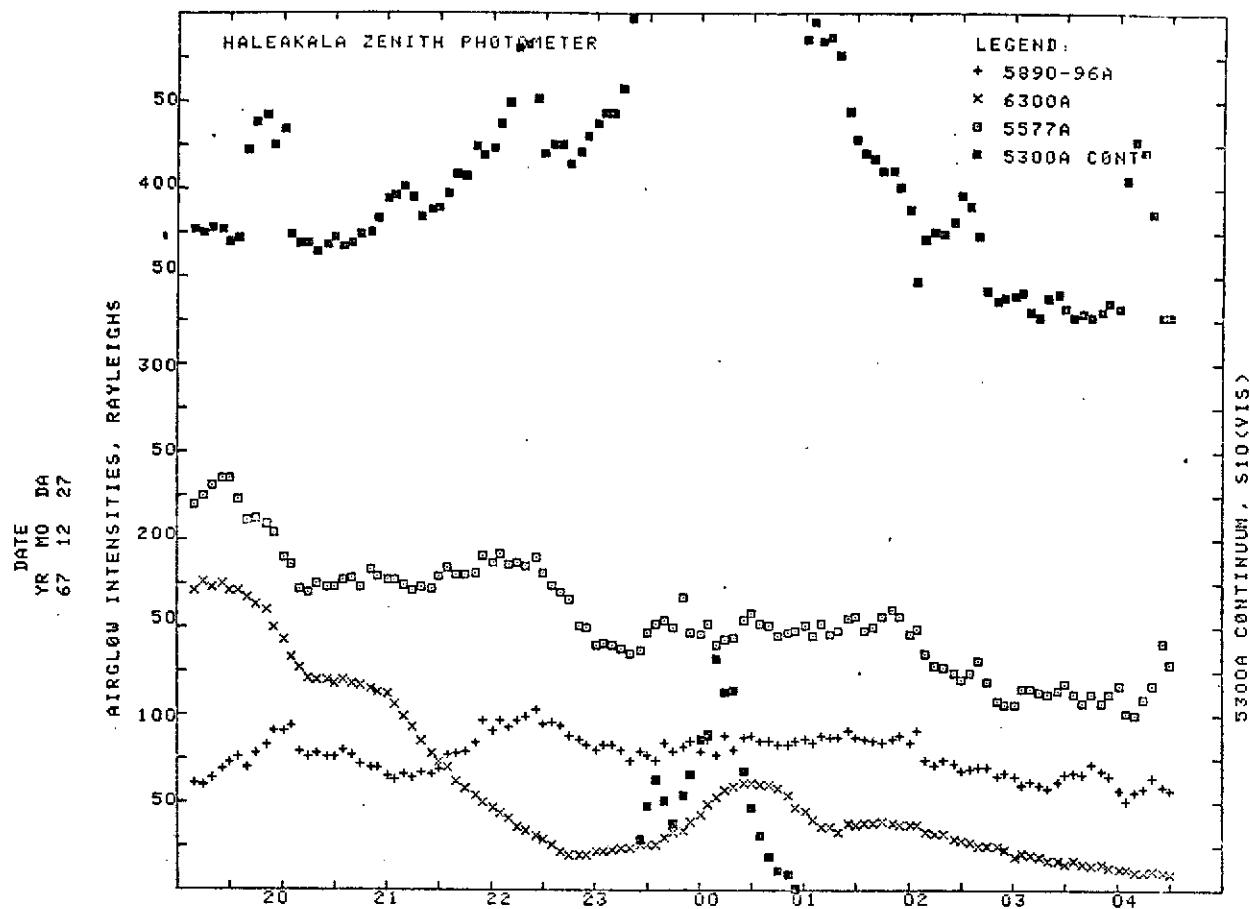
HAWAII STANDARD TIME, HOURS

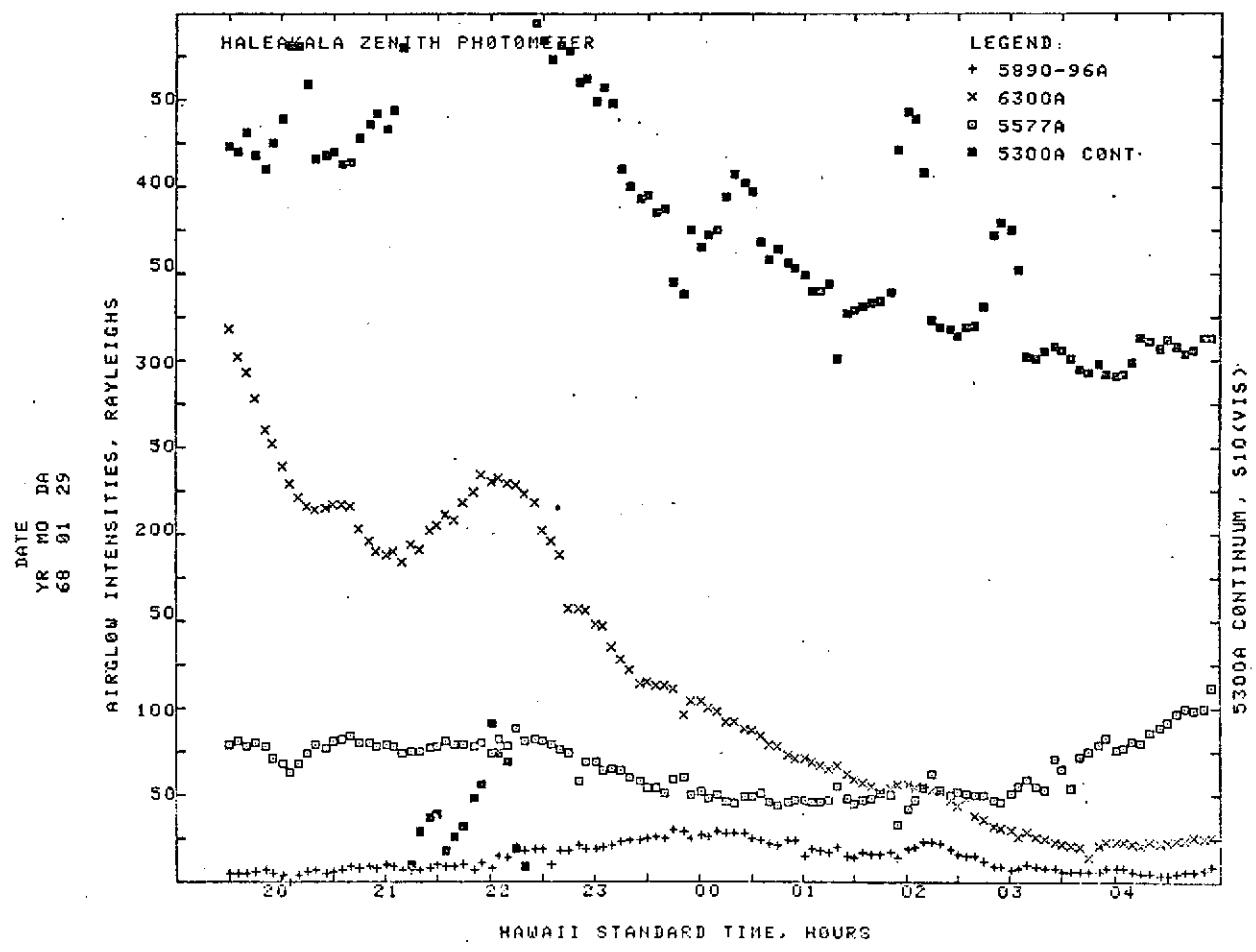
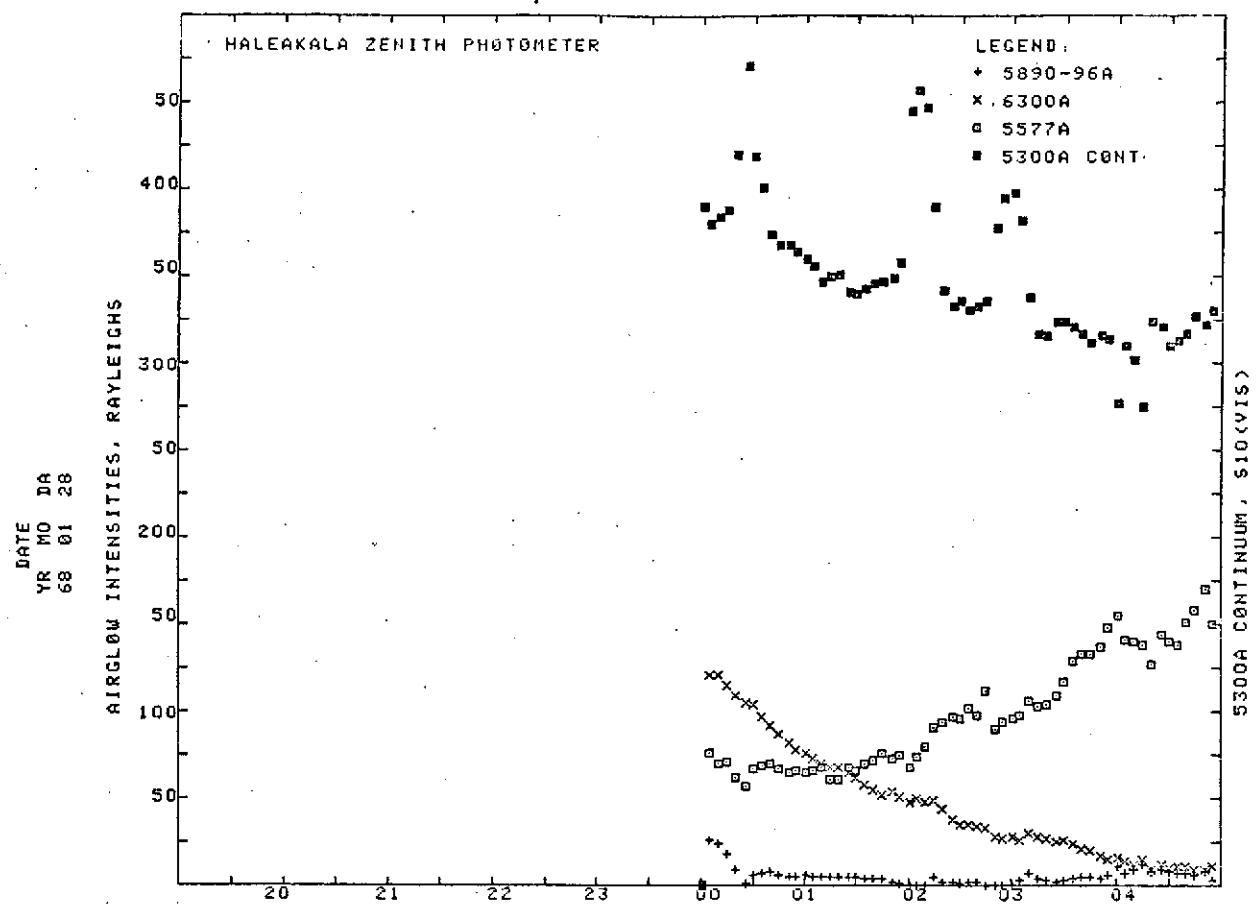


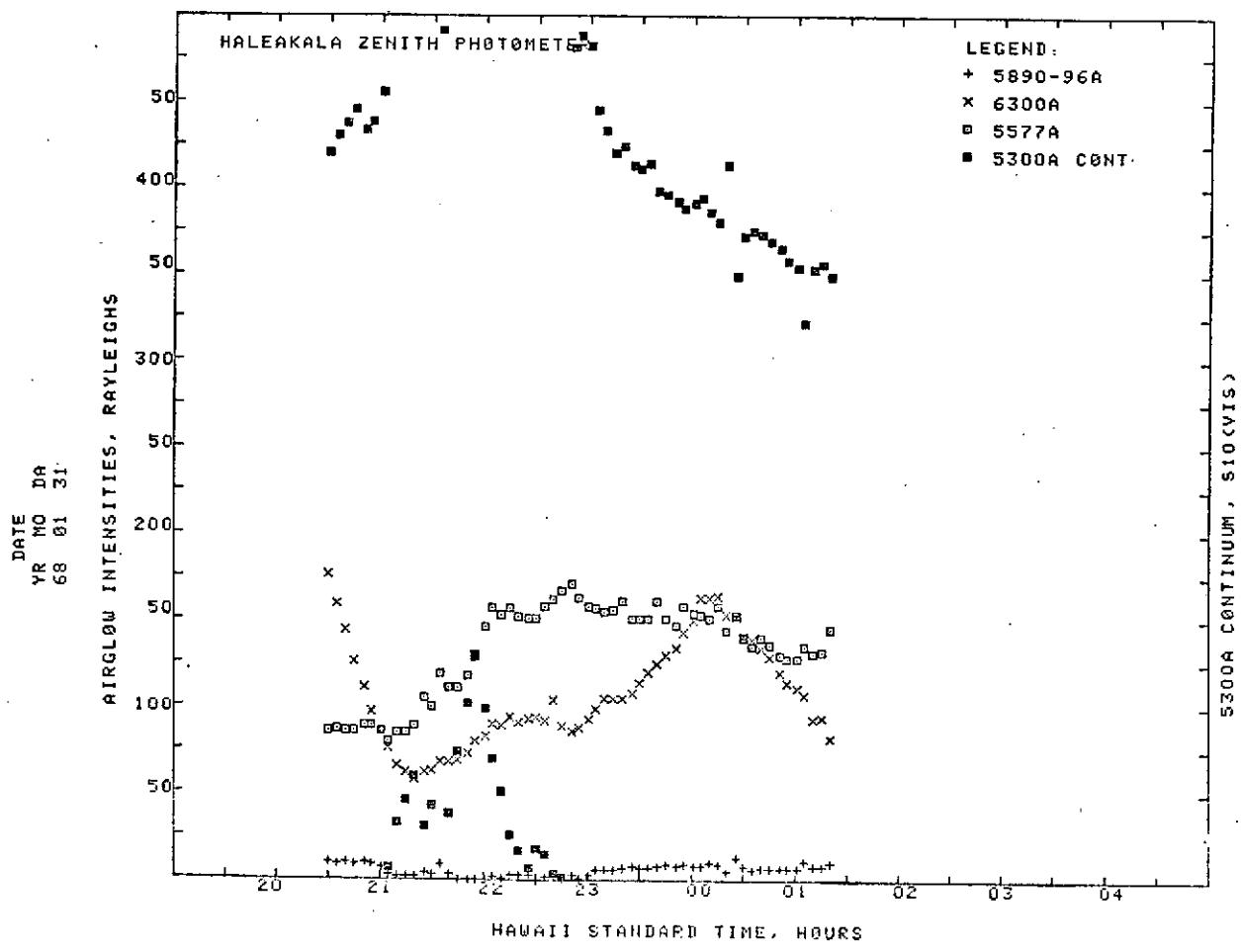
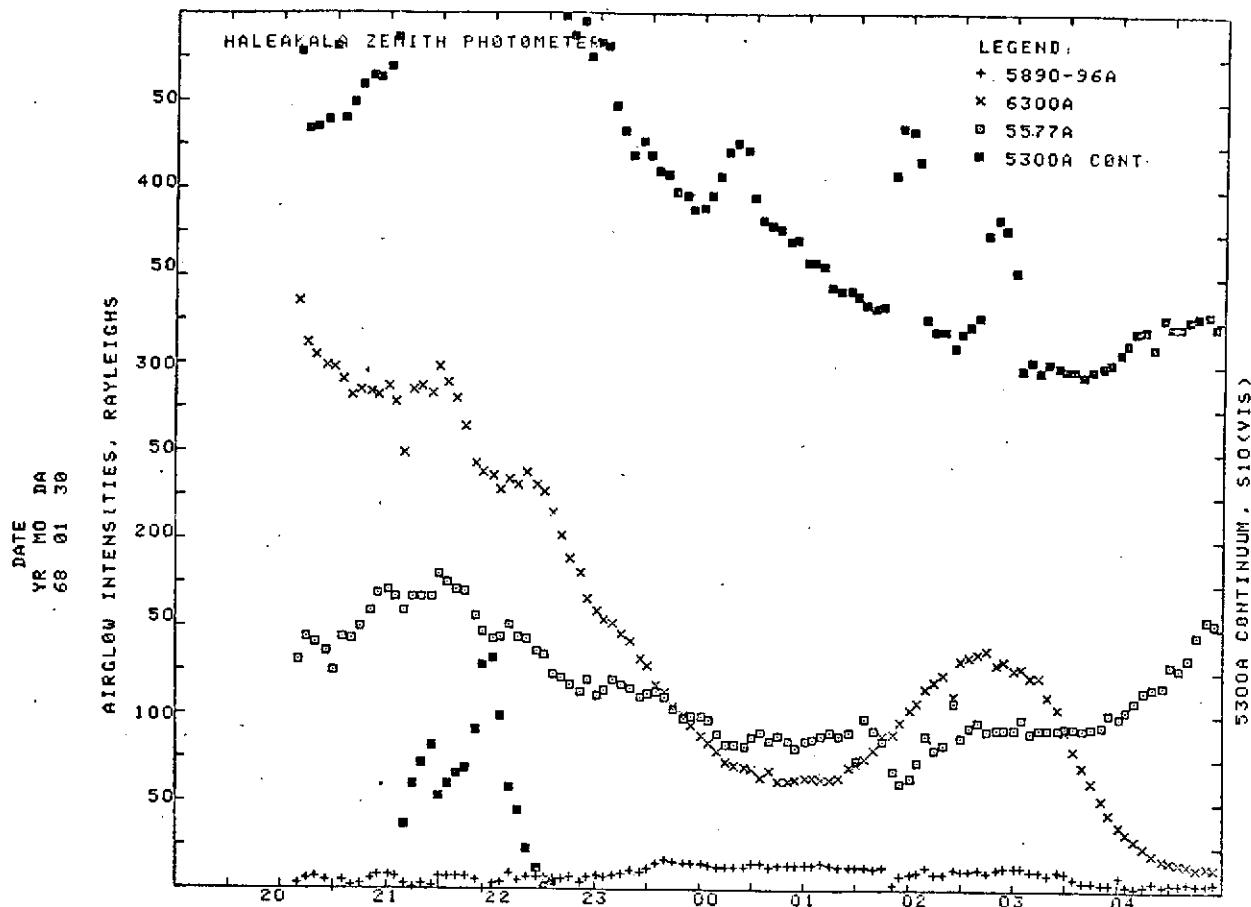


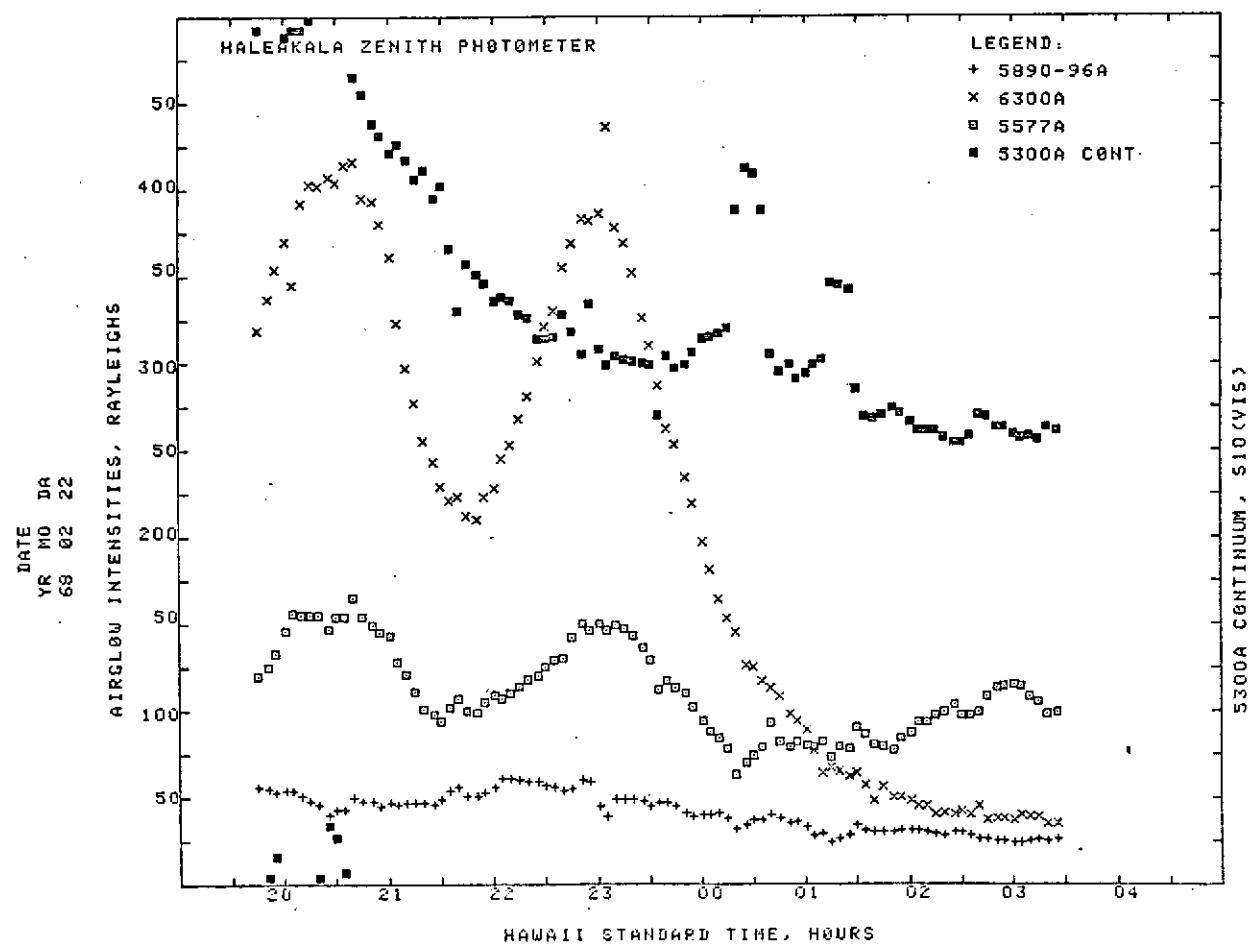
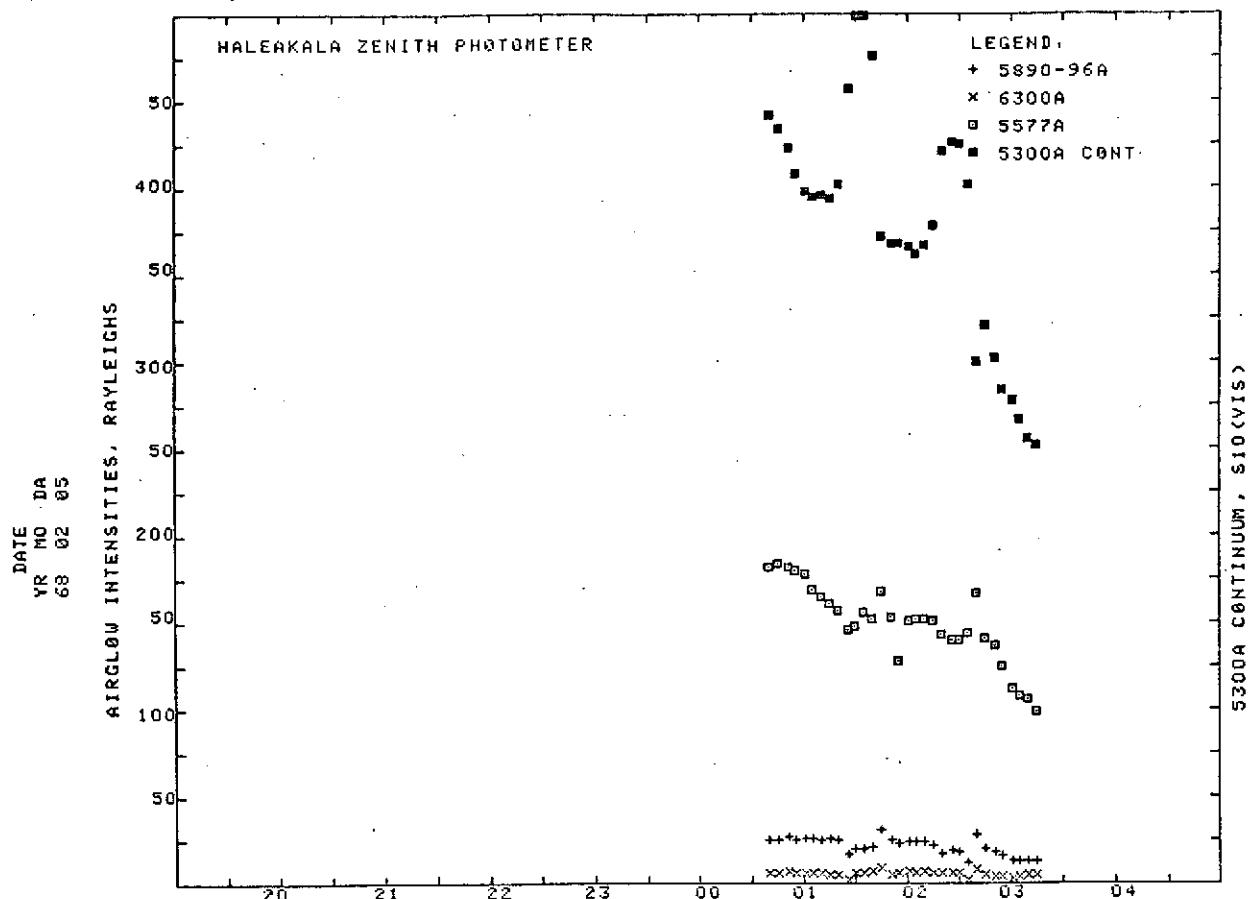


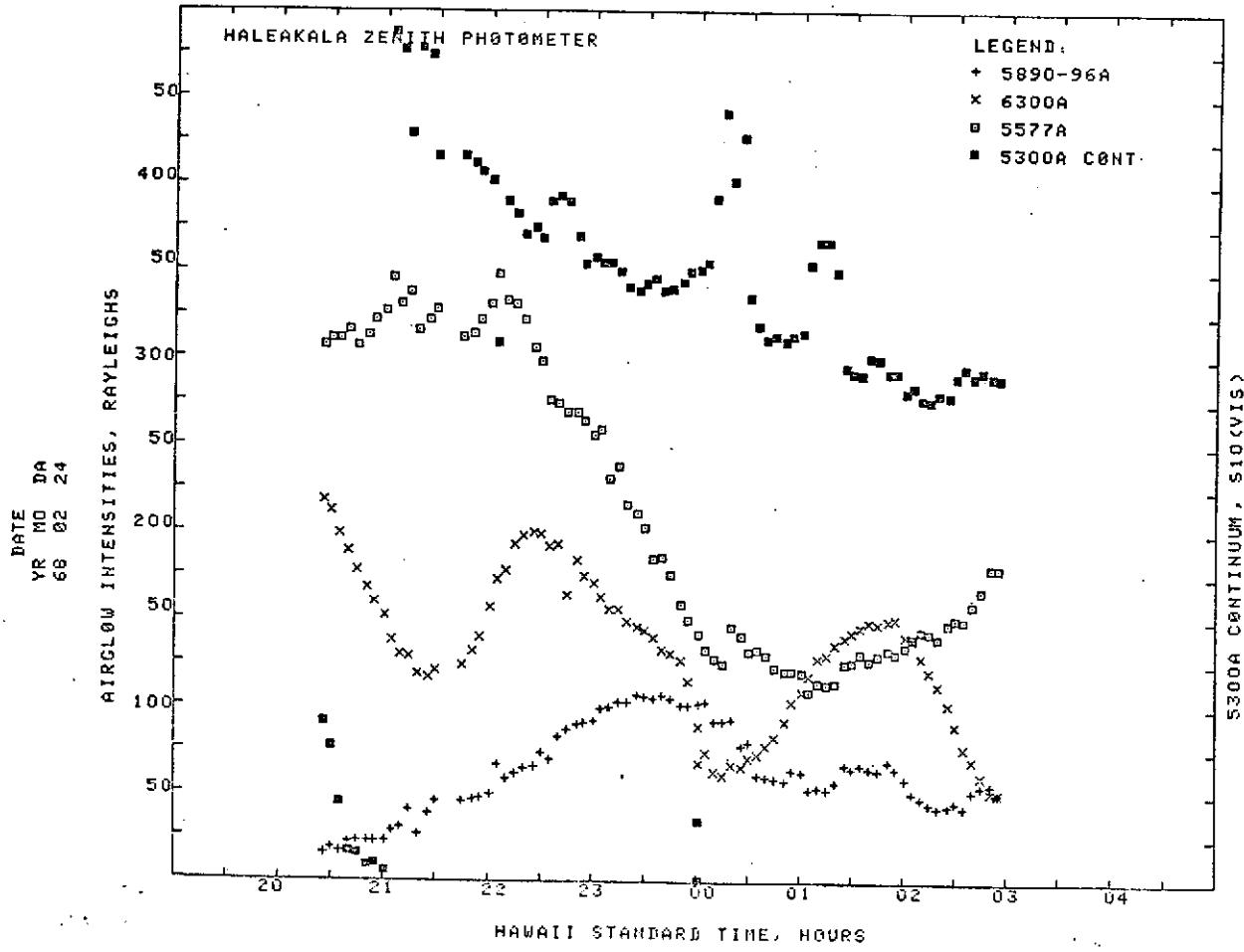
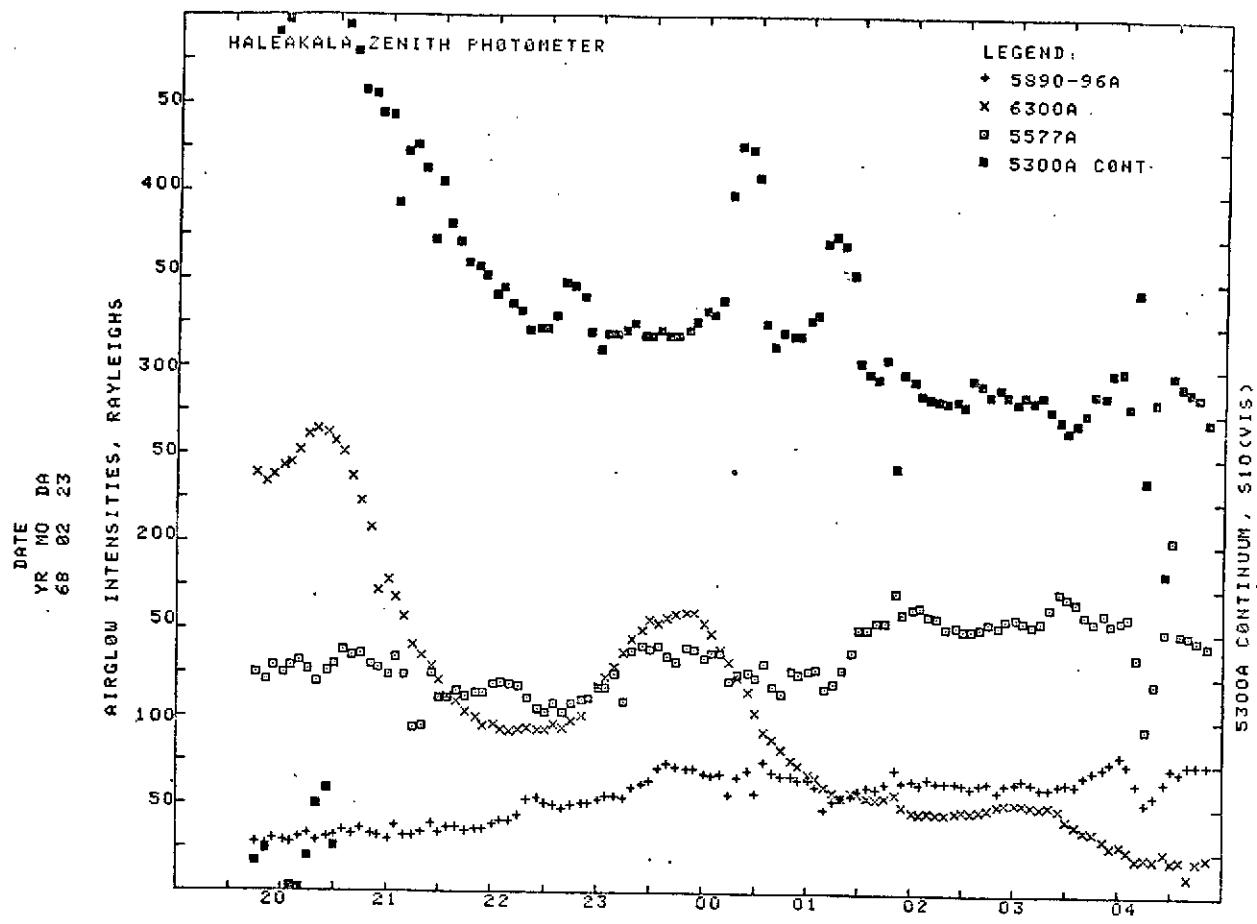


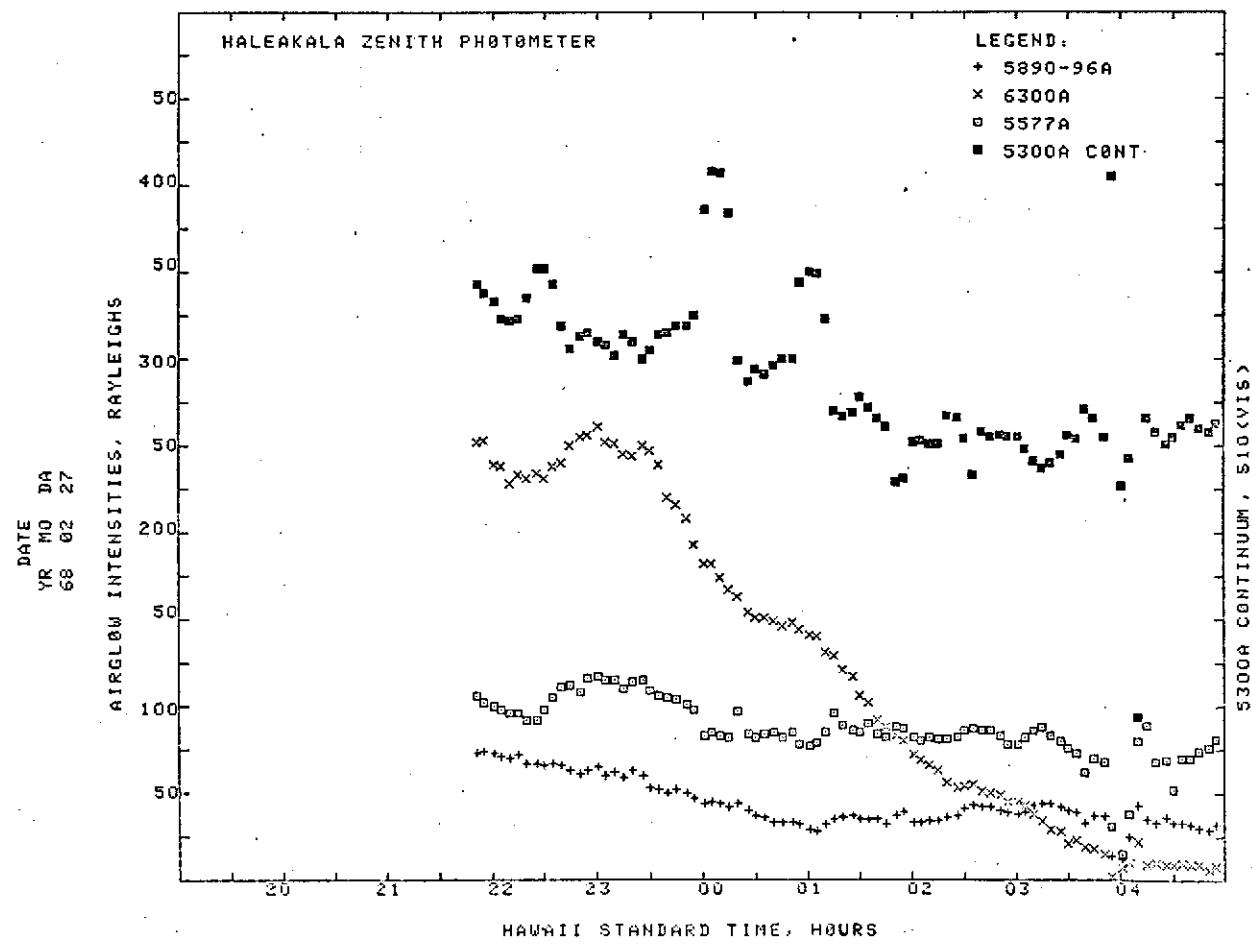
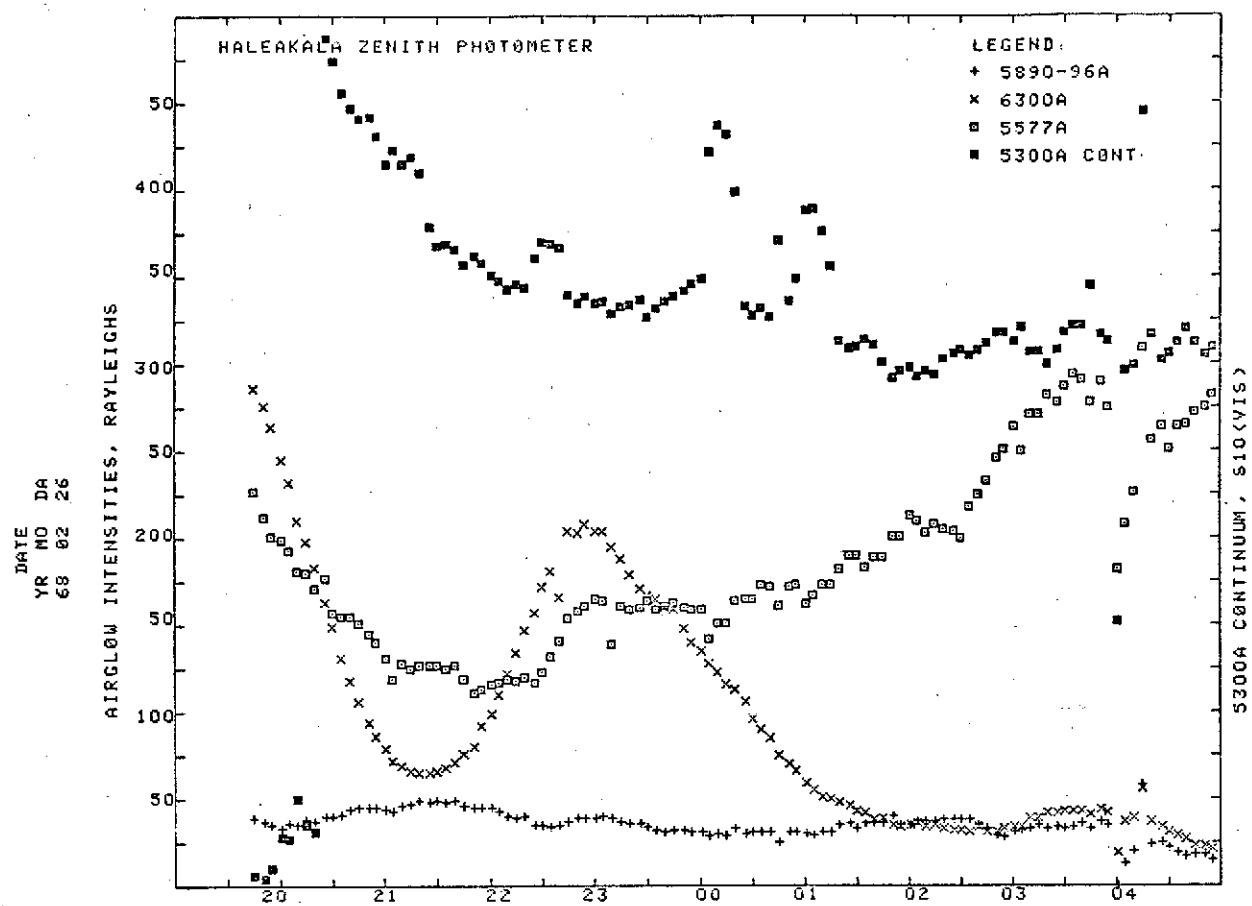


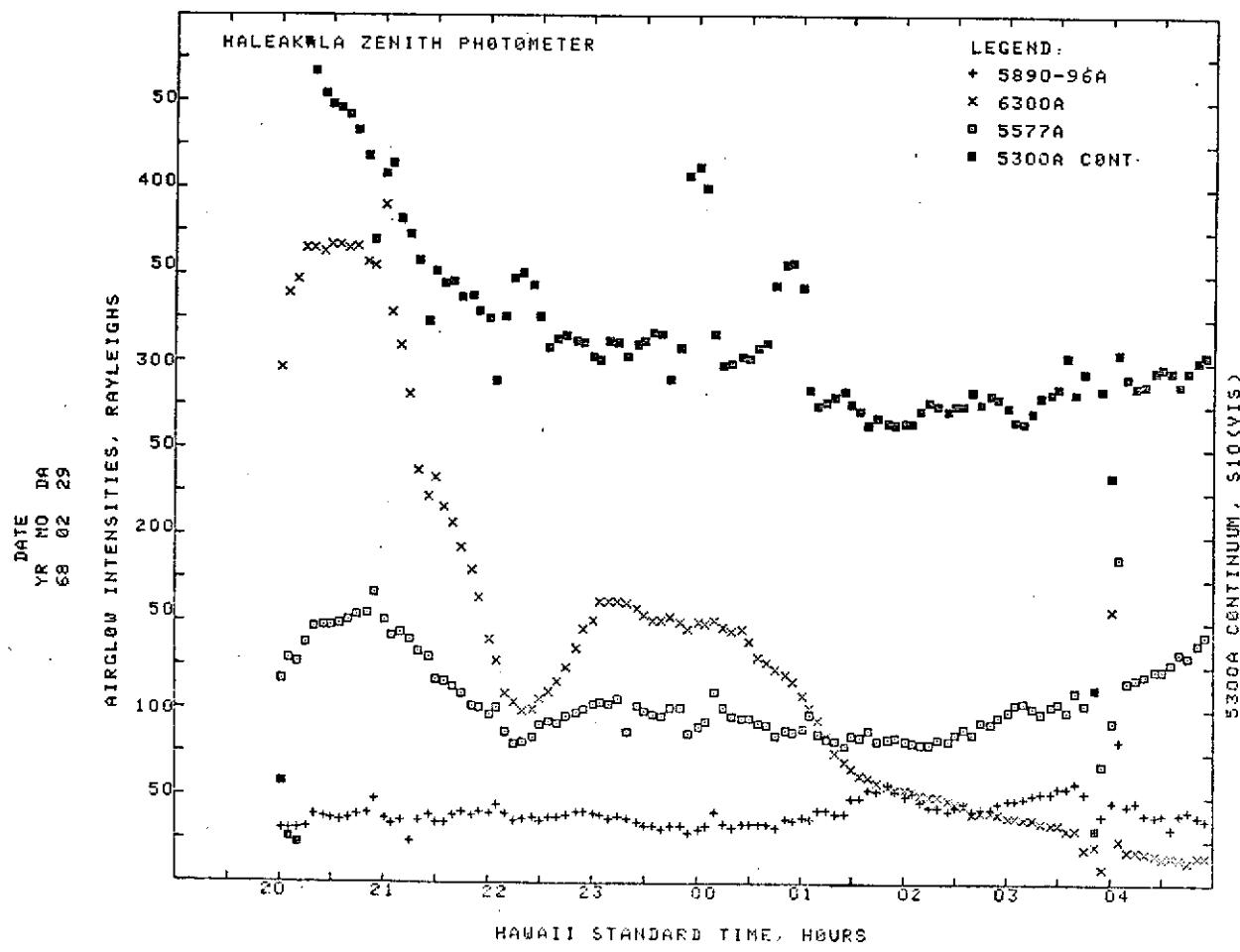
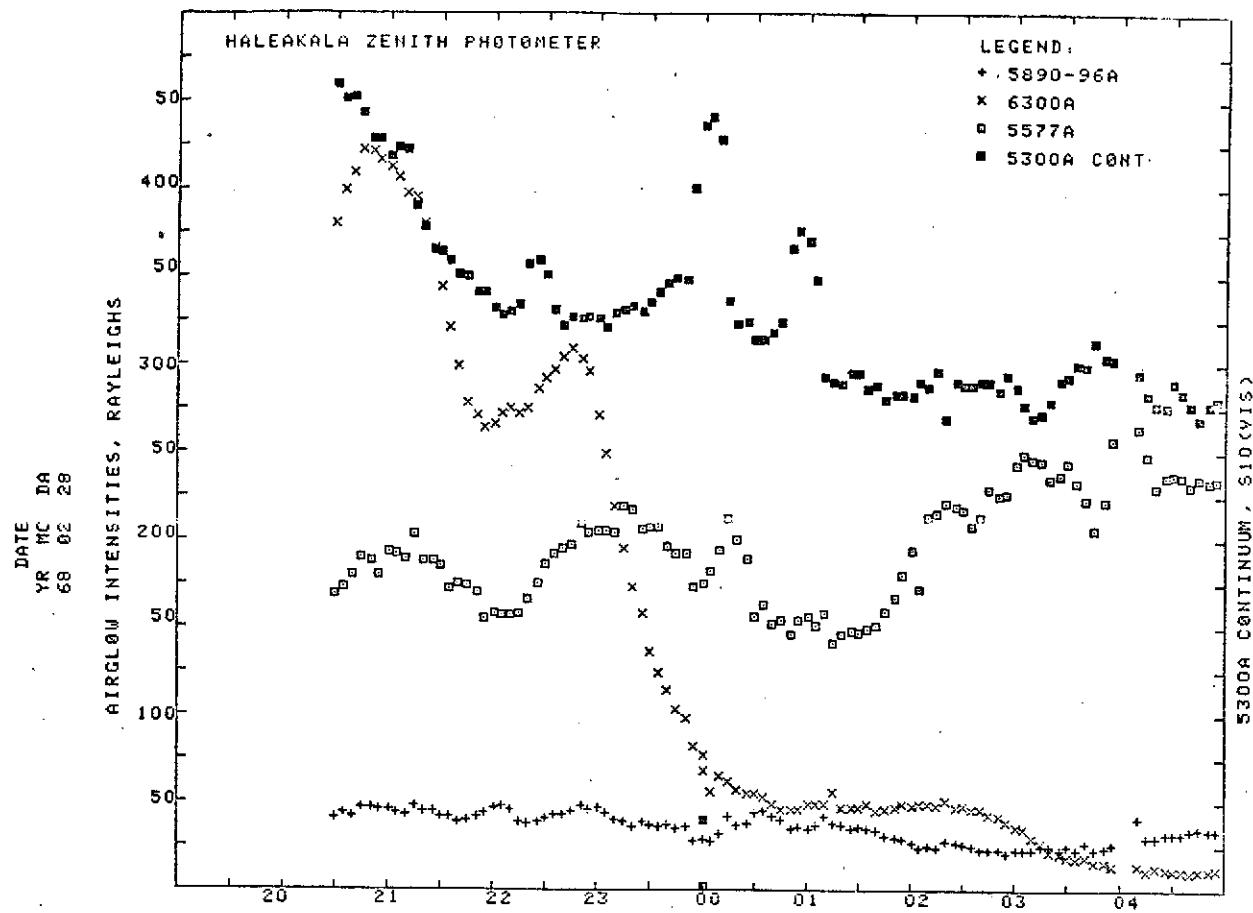


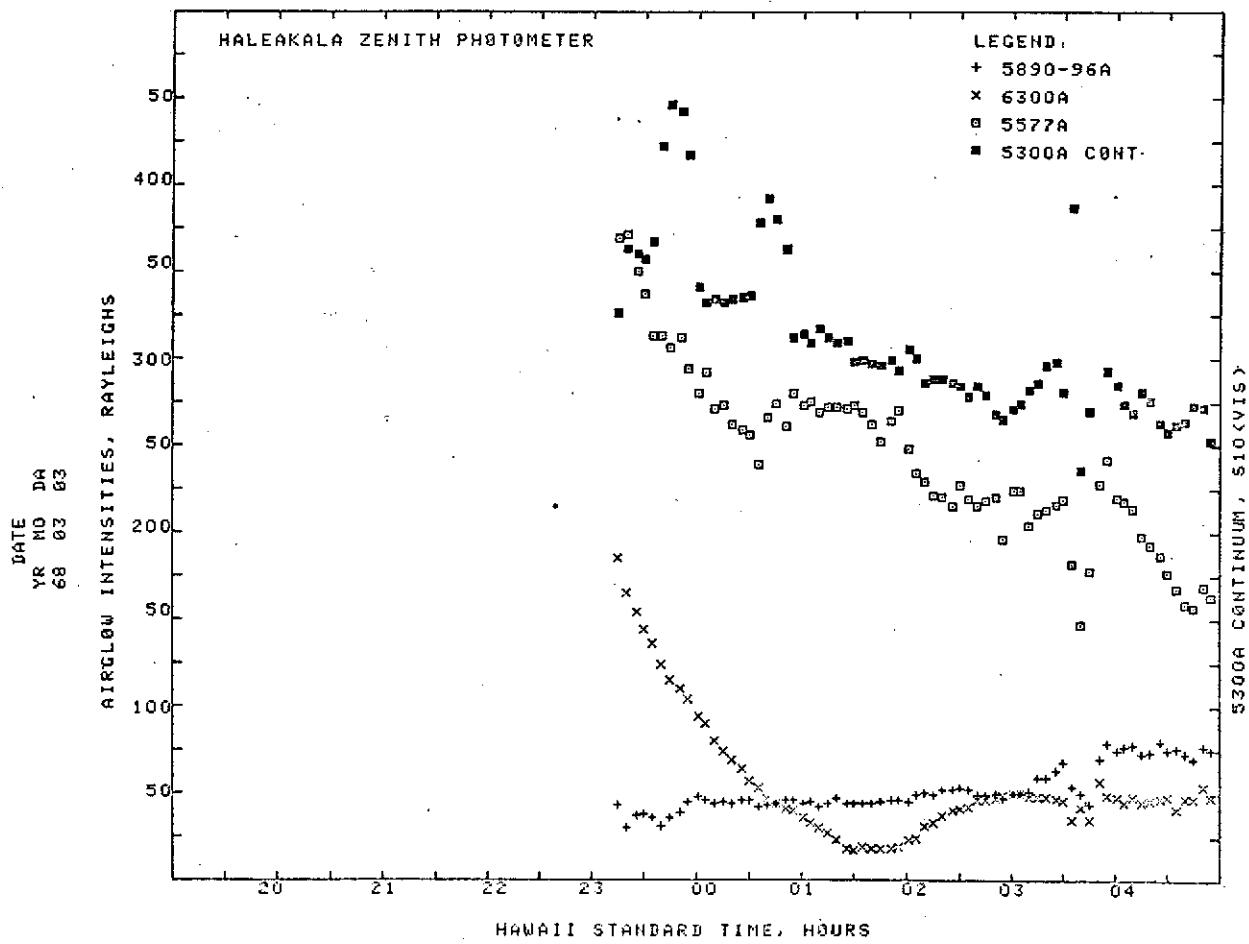
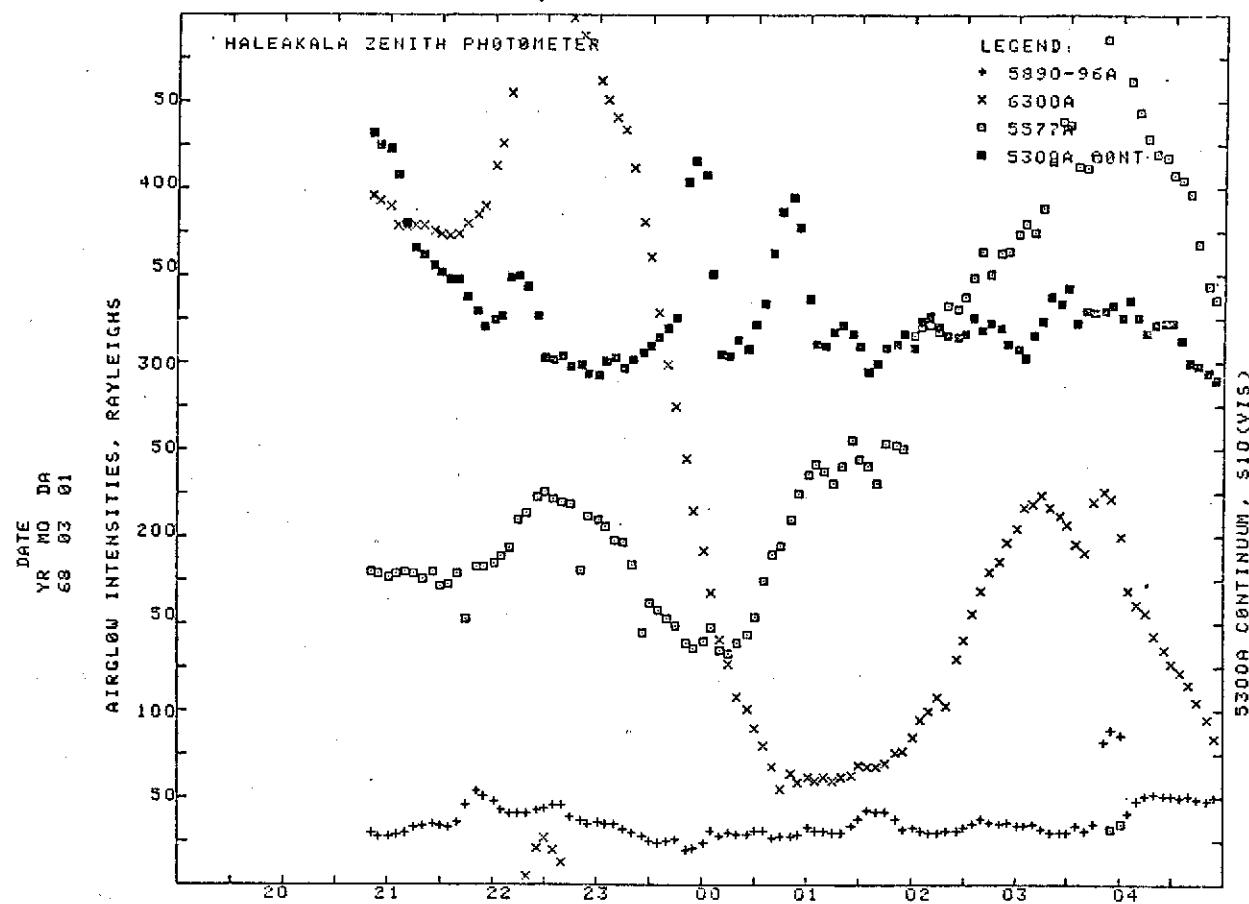


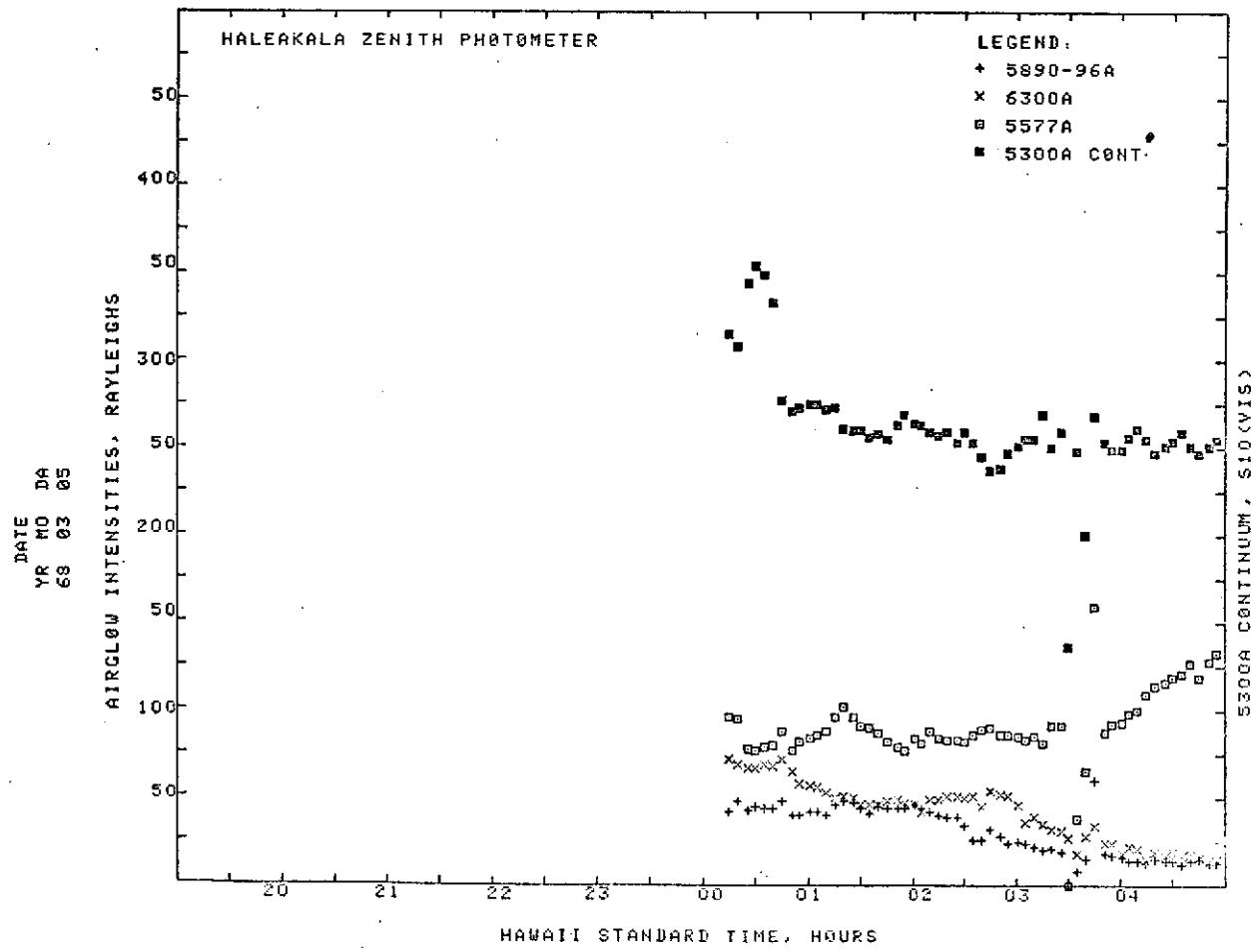
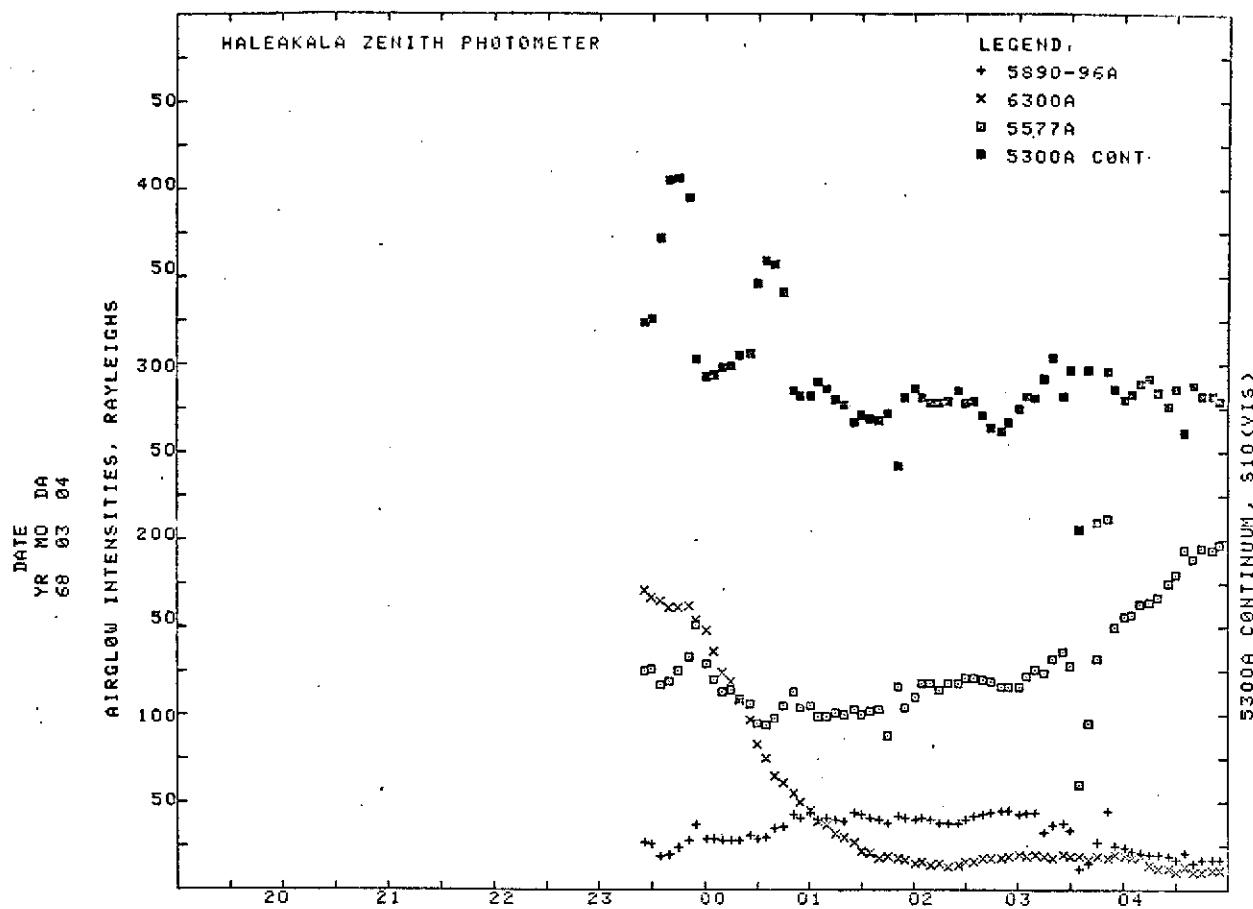


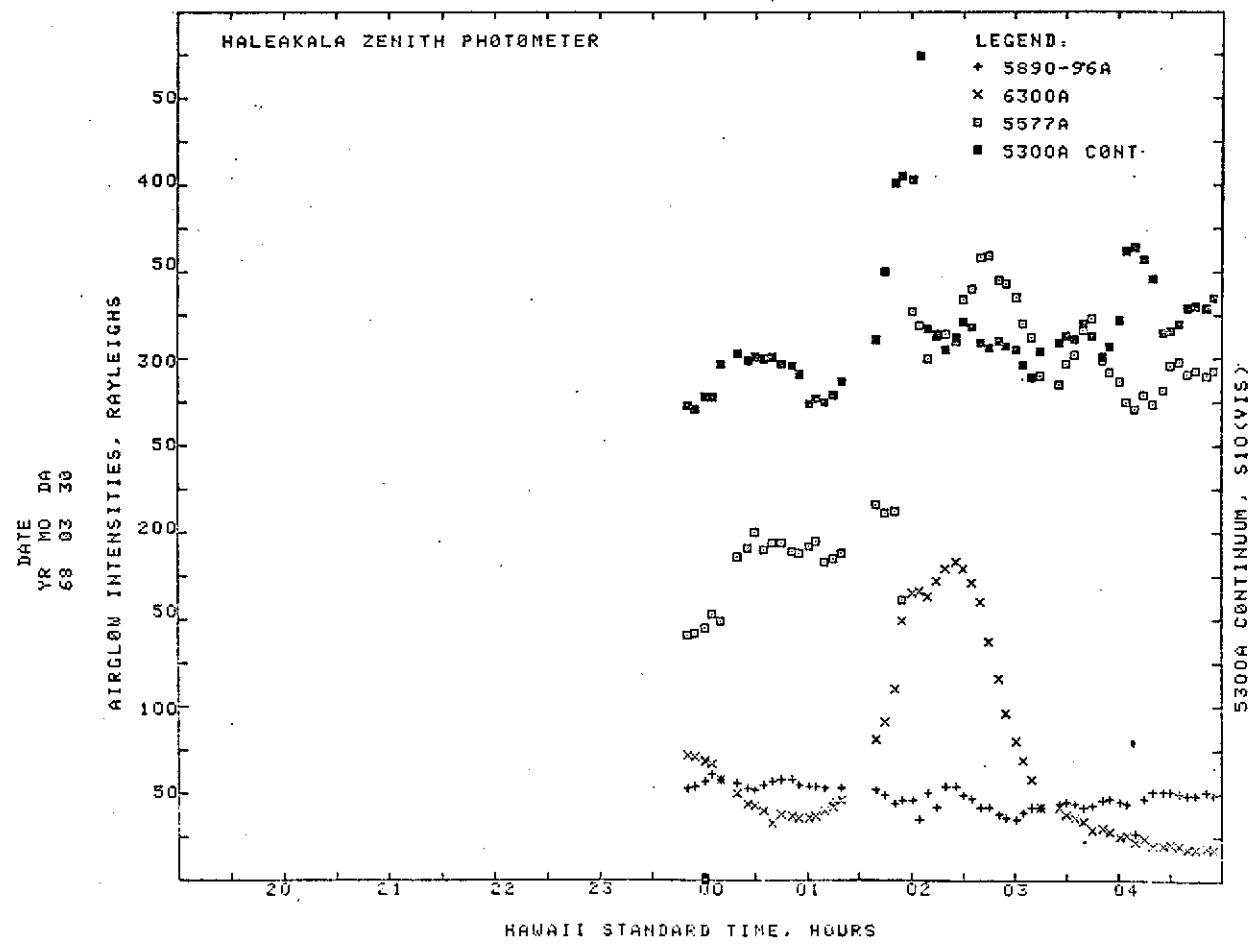
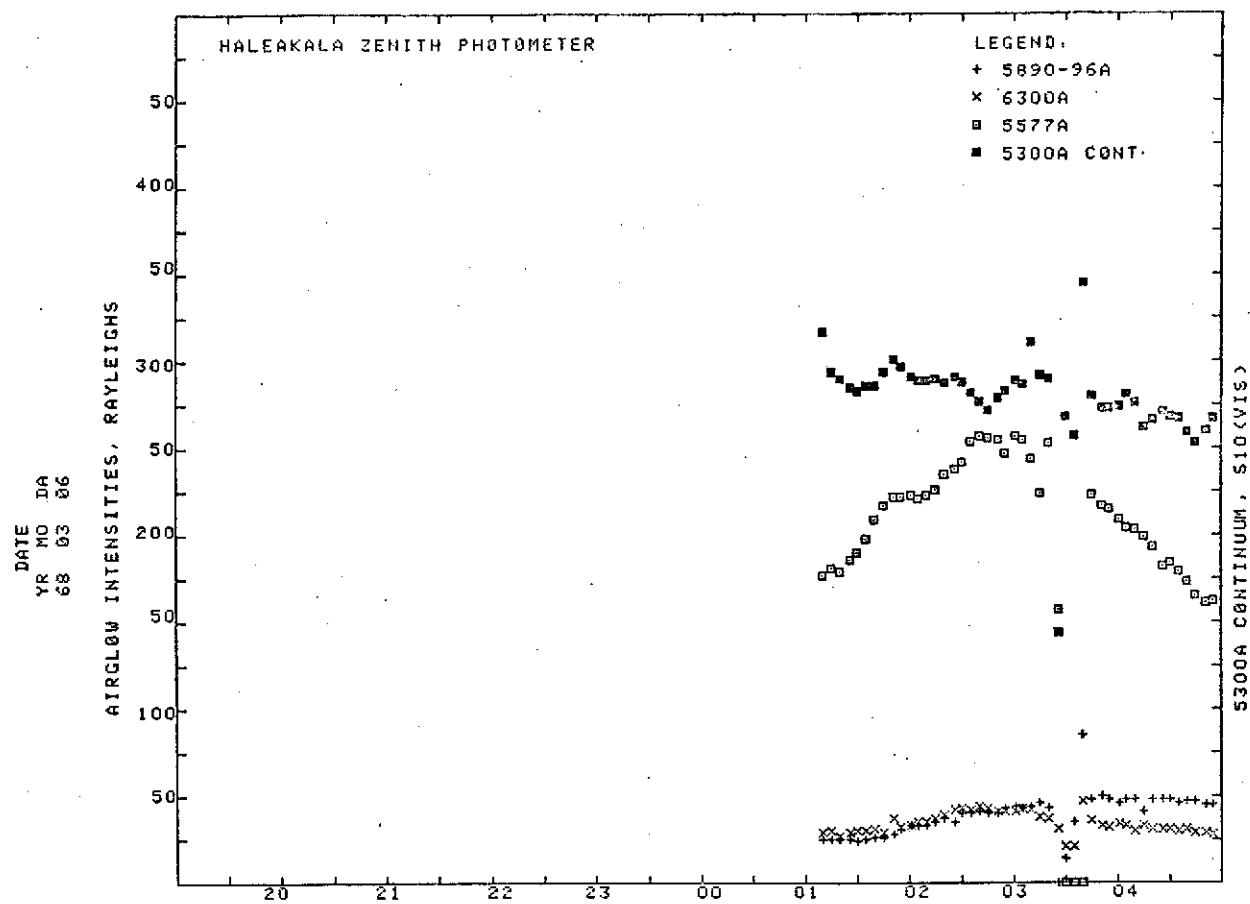


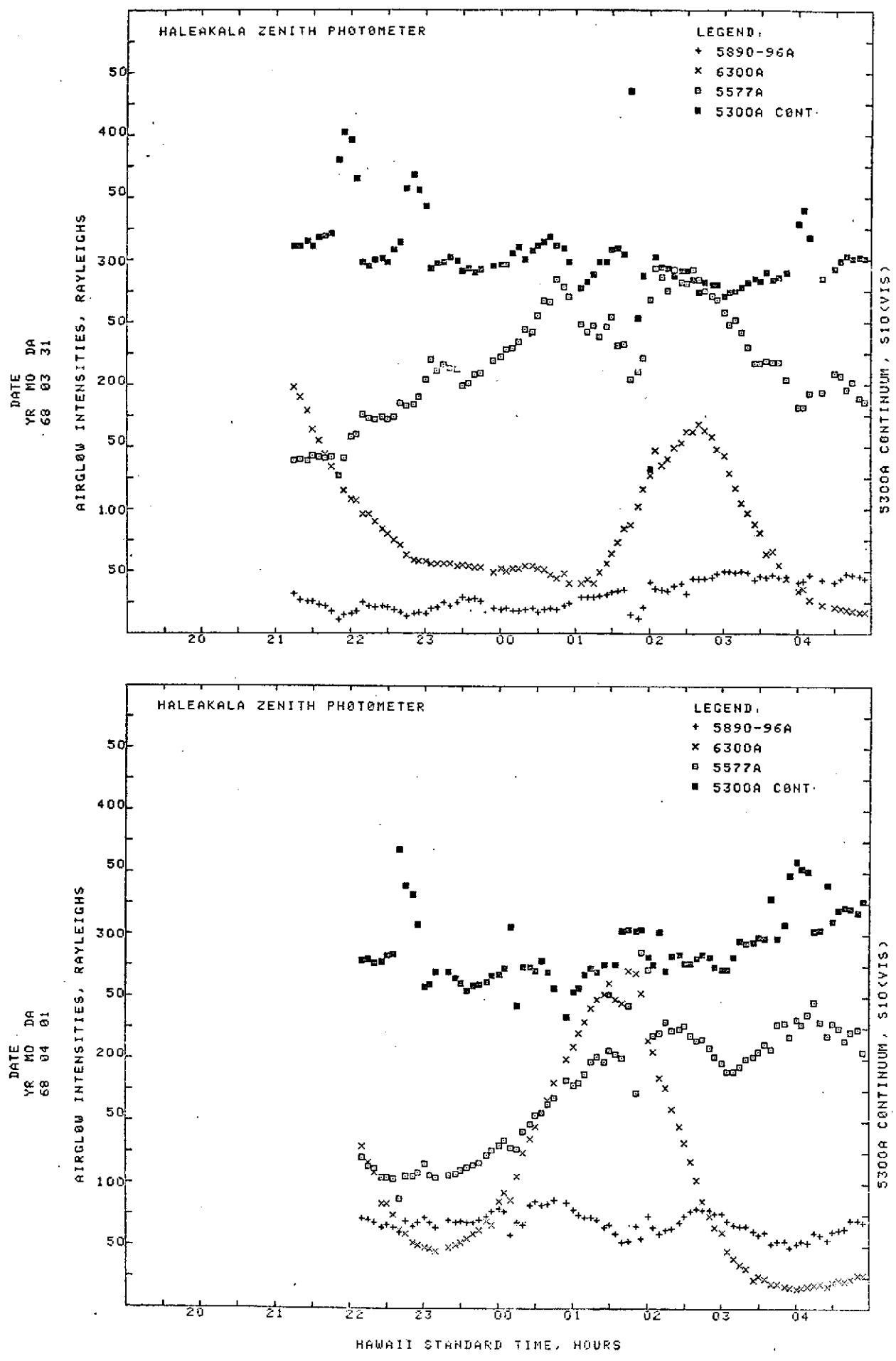


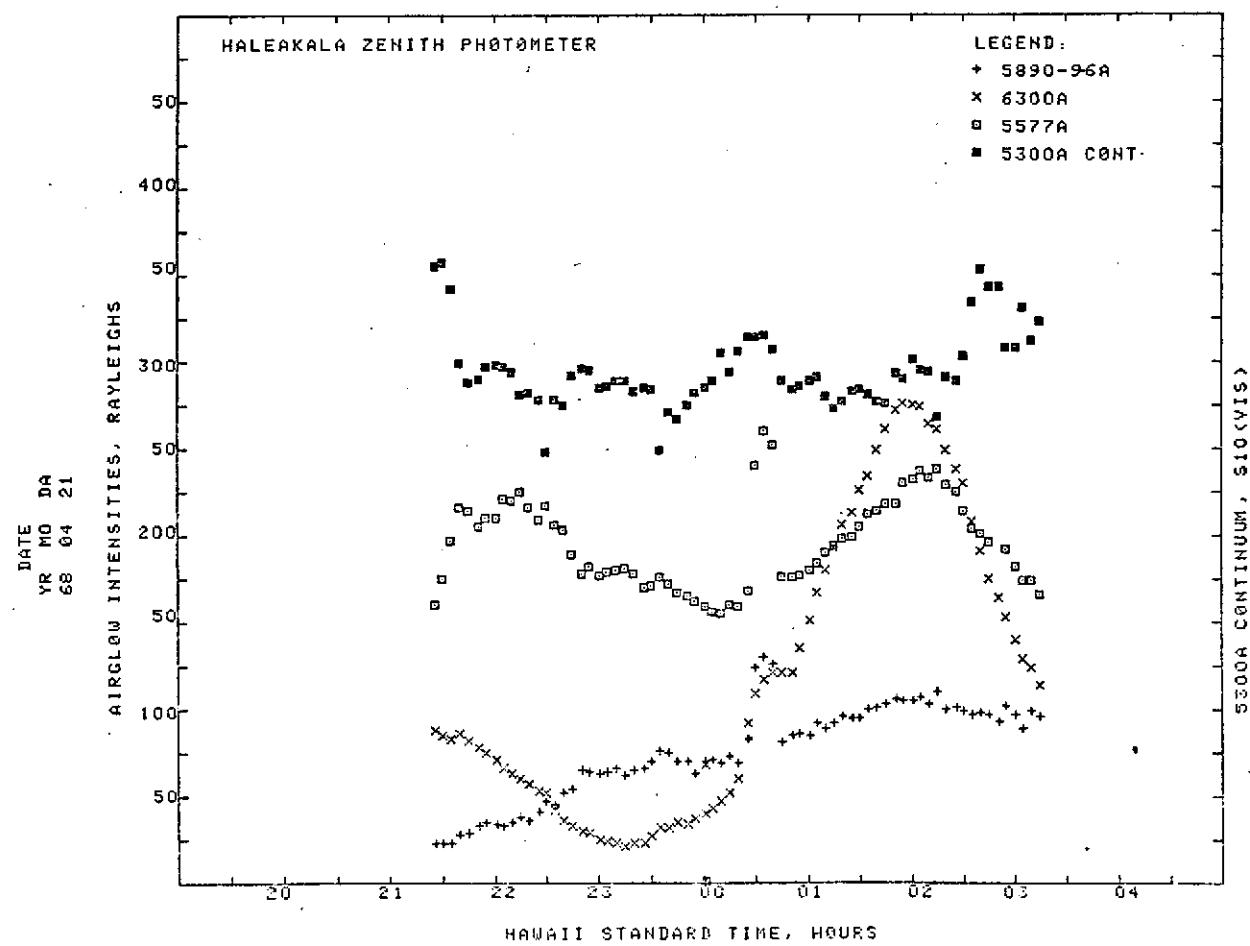
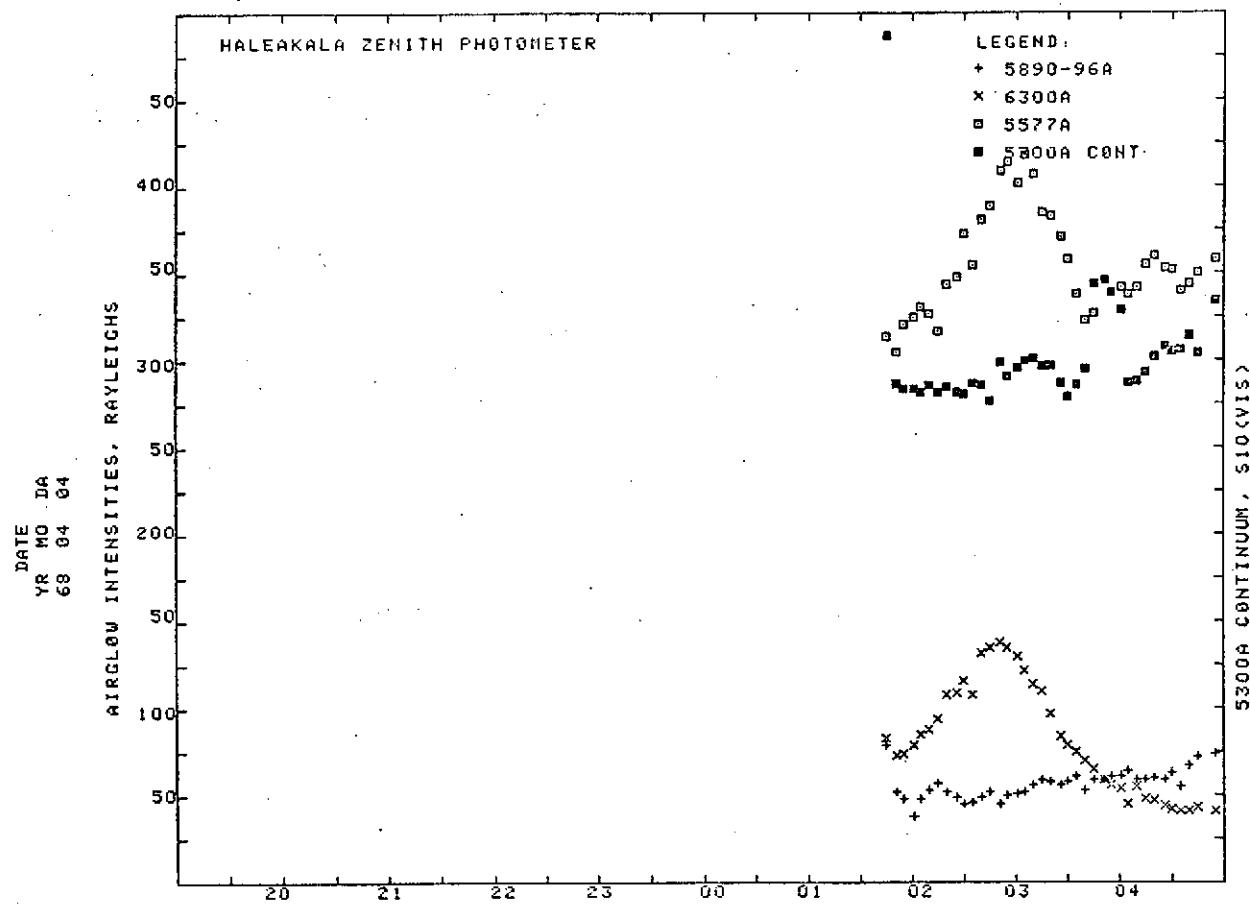


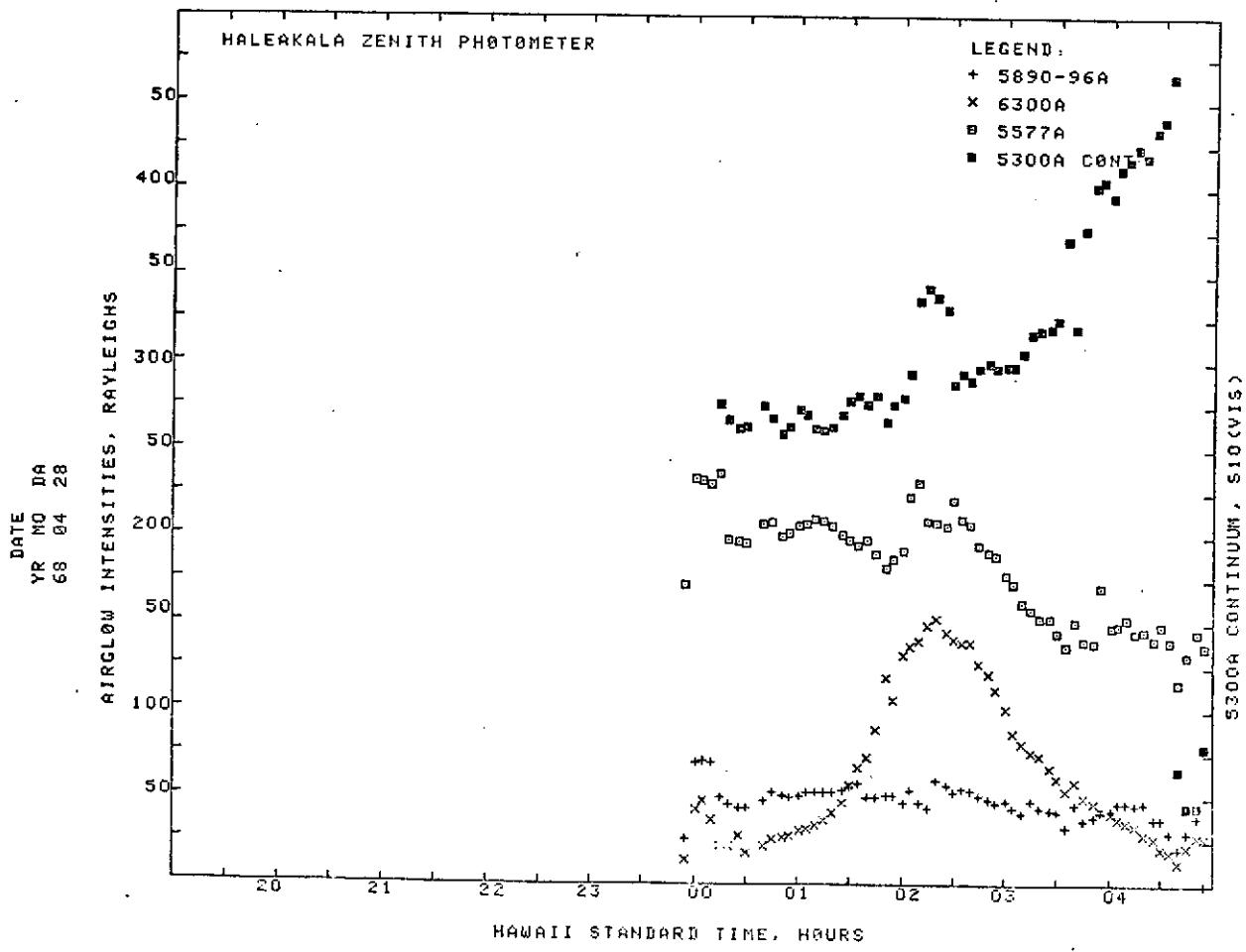
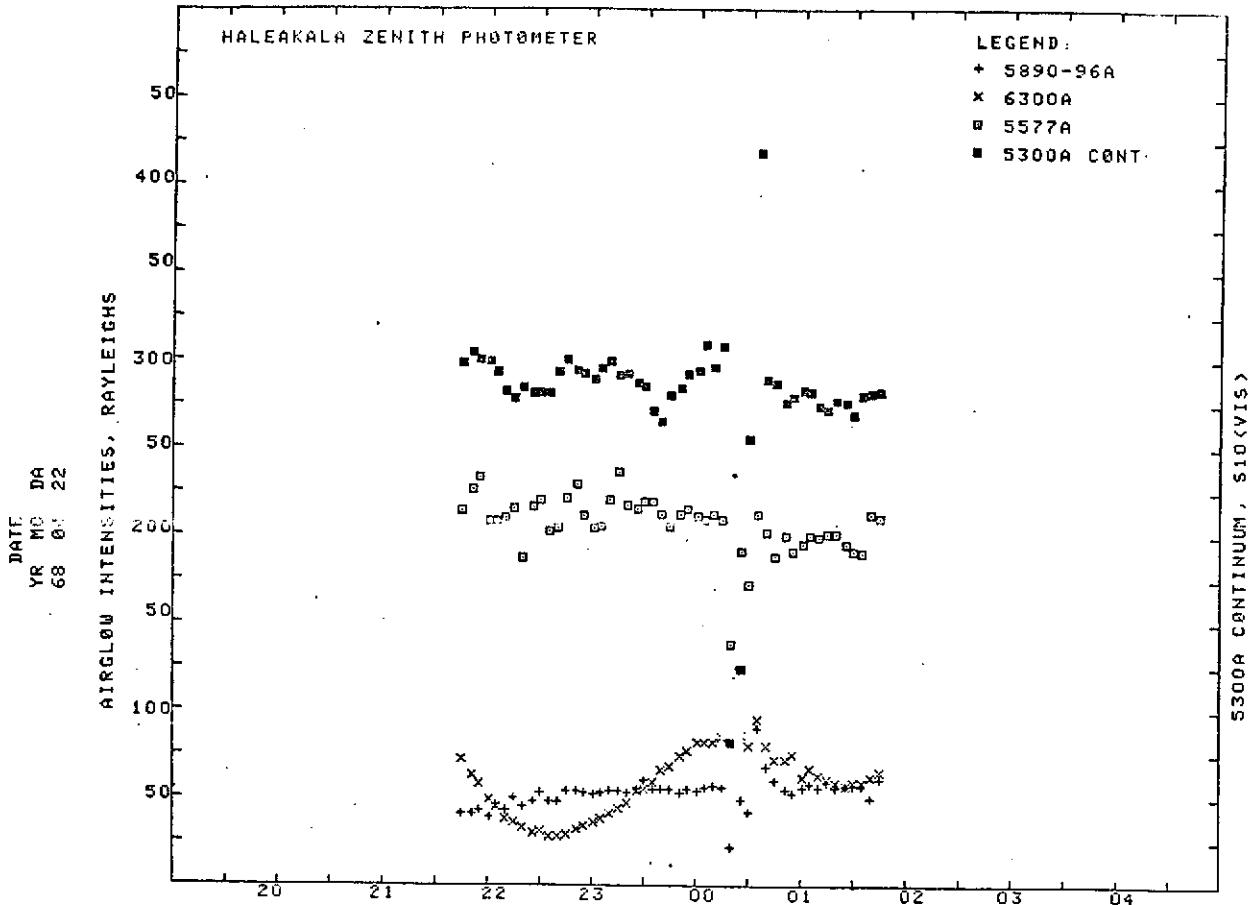


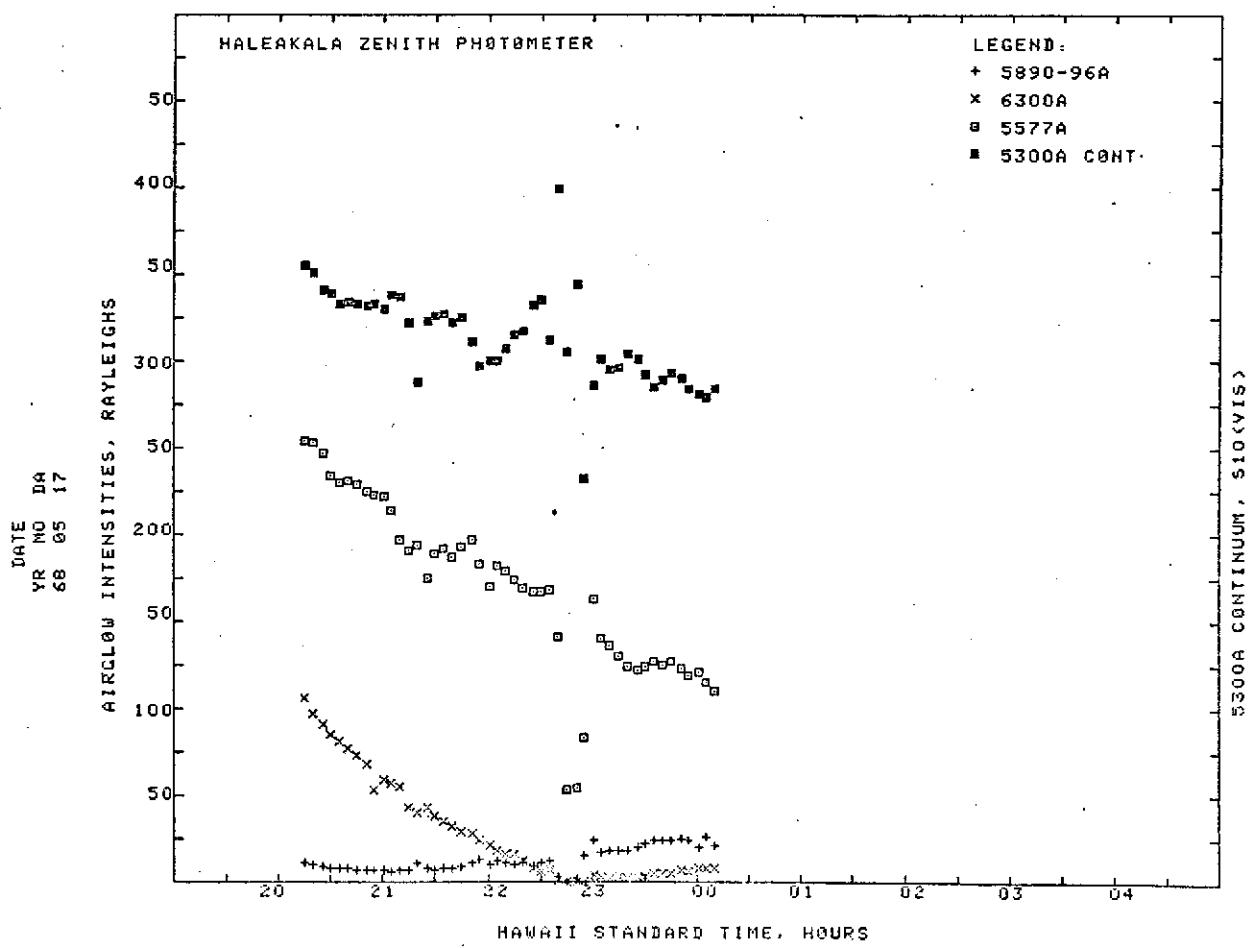
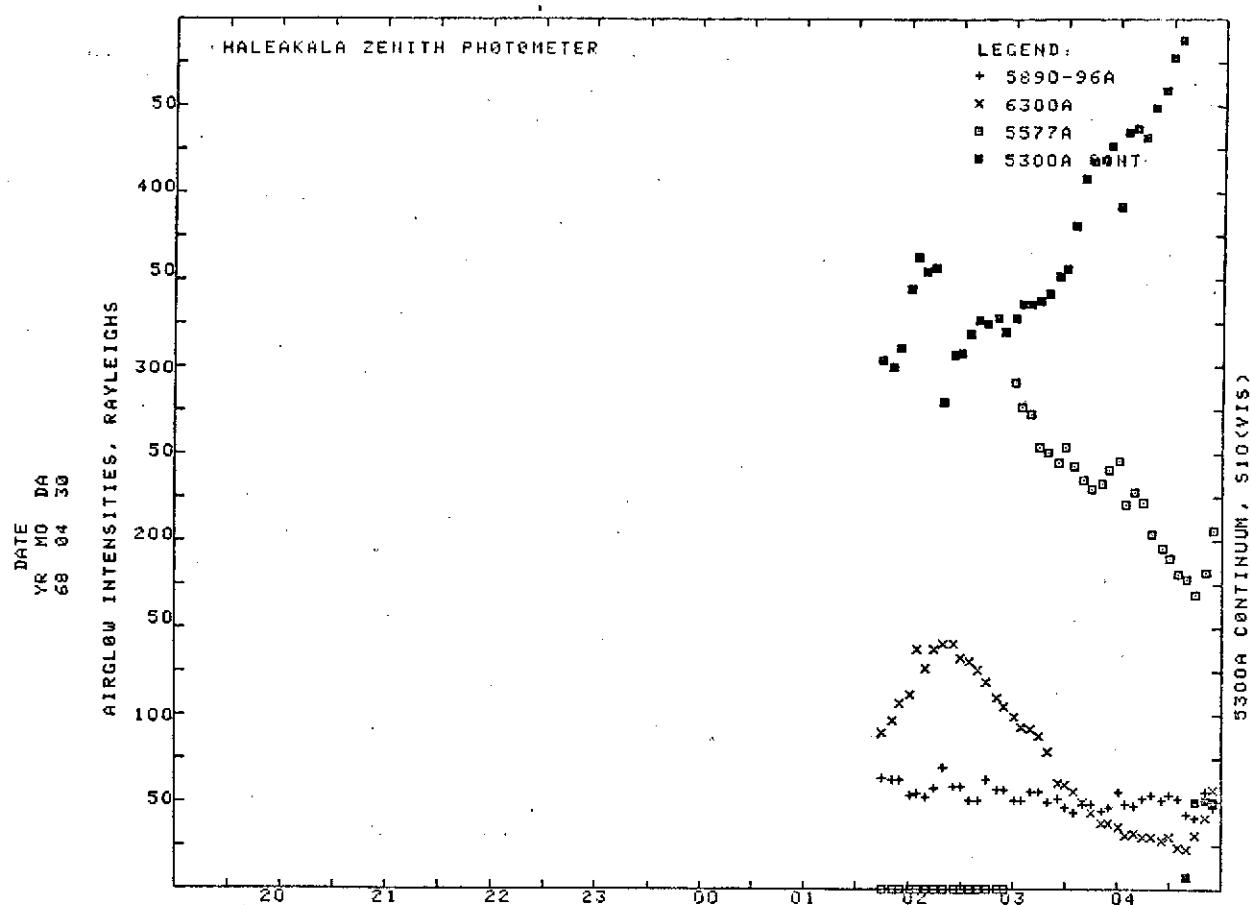


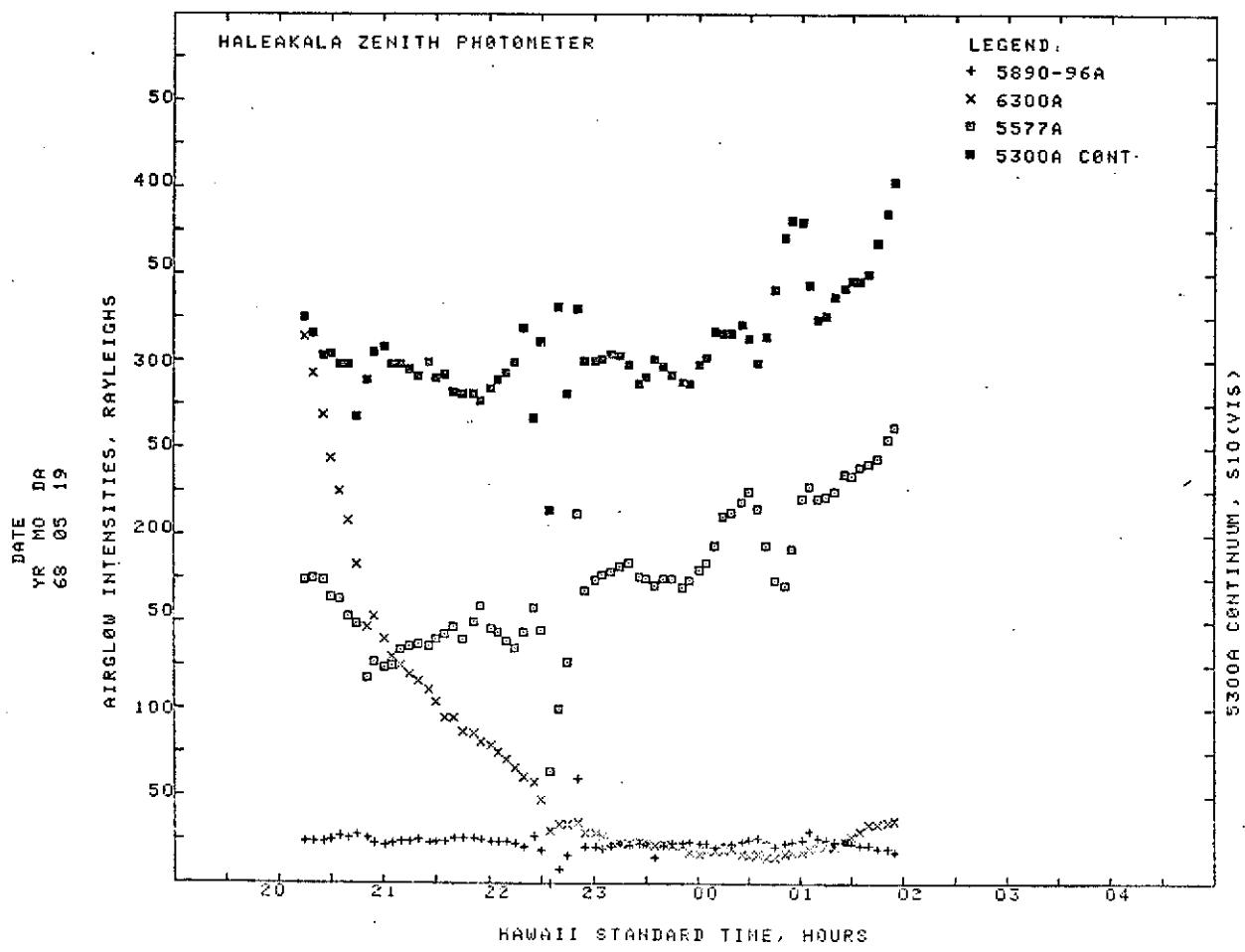
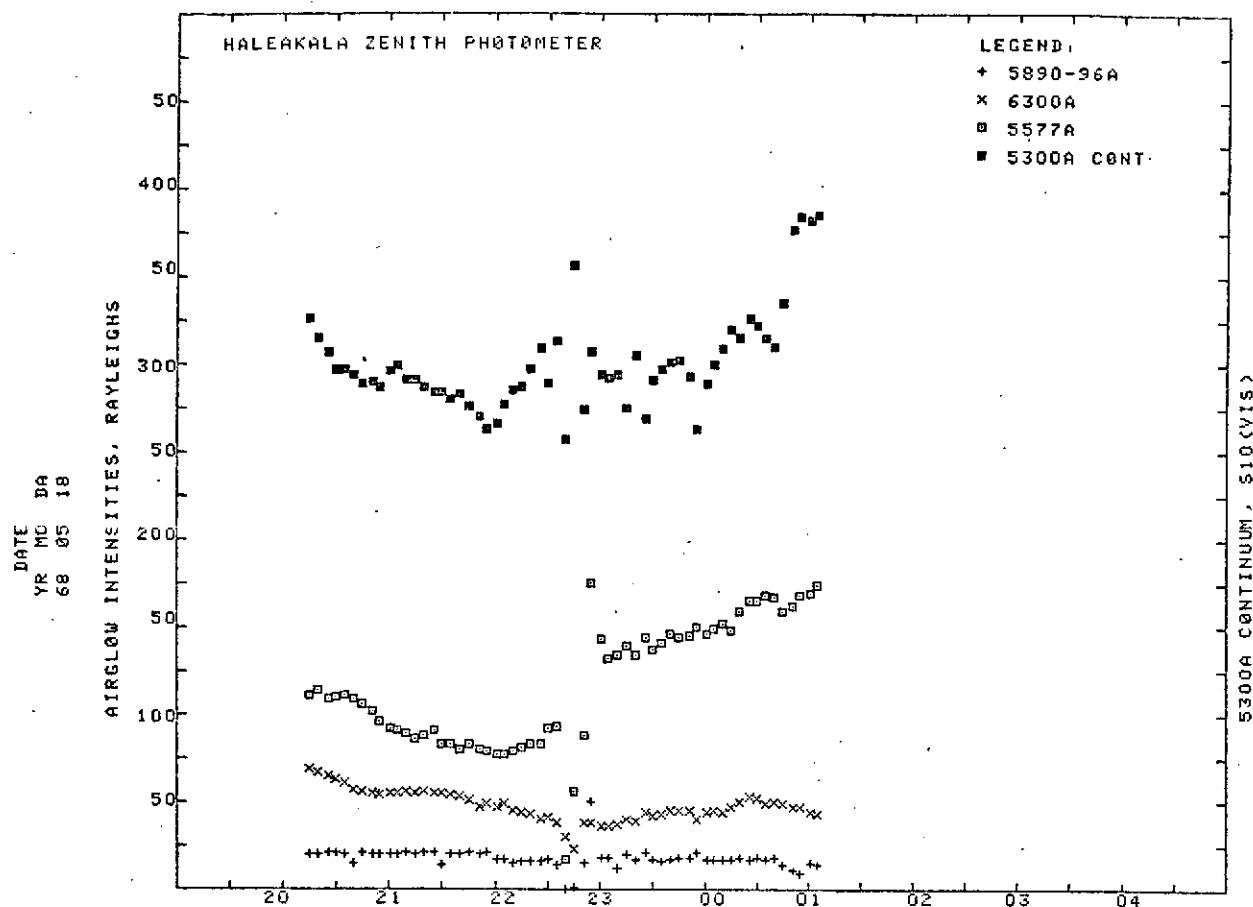


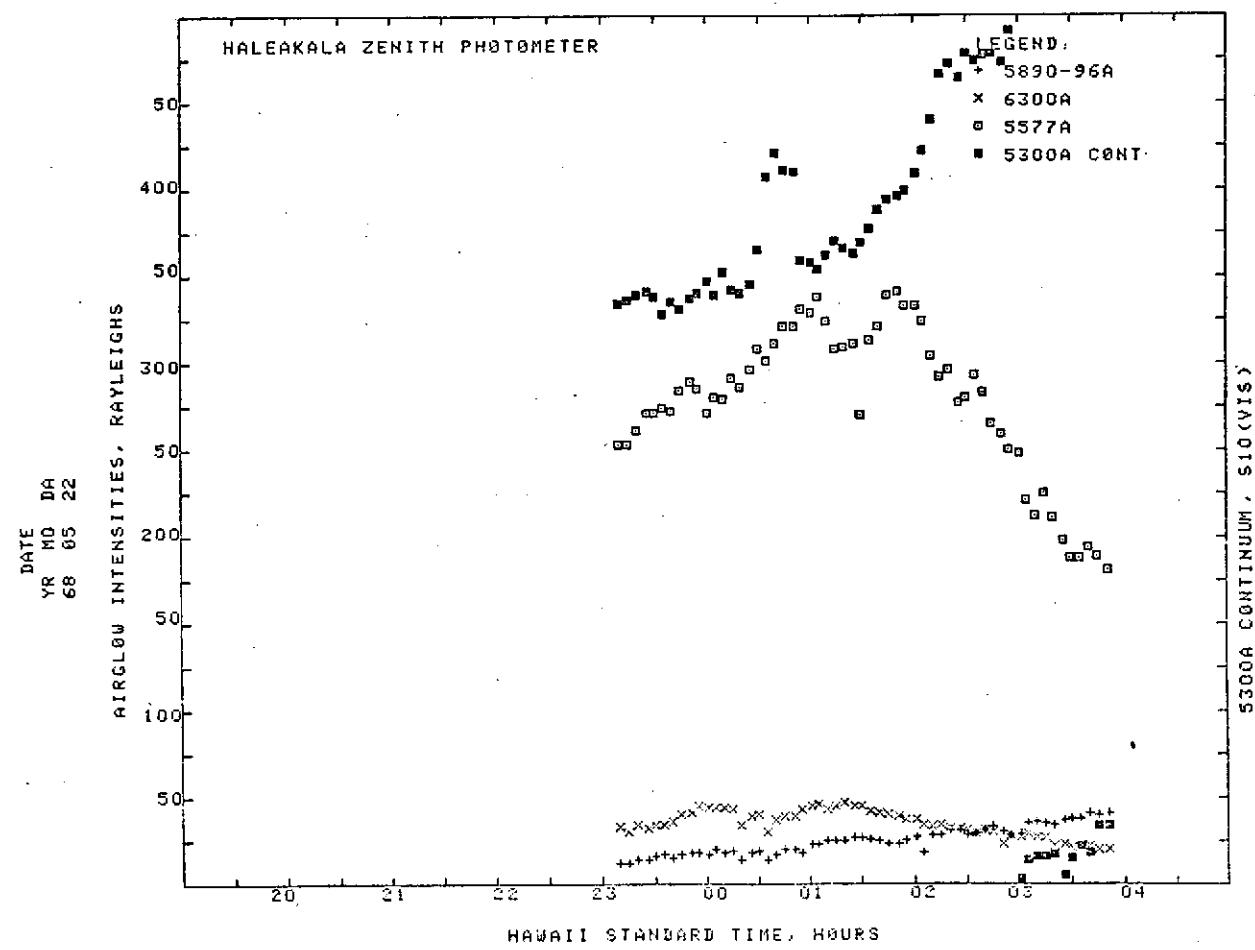
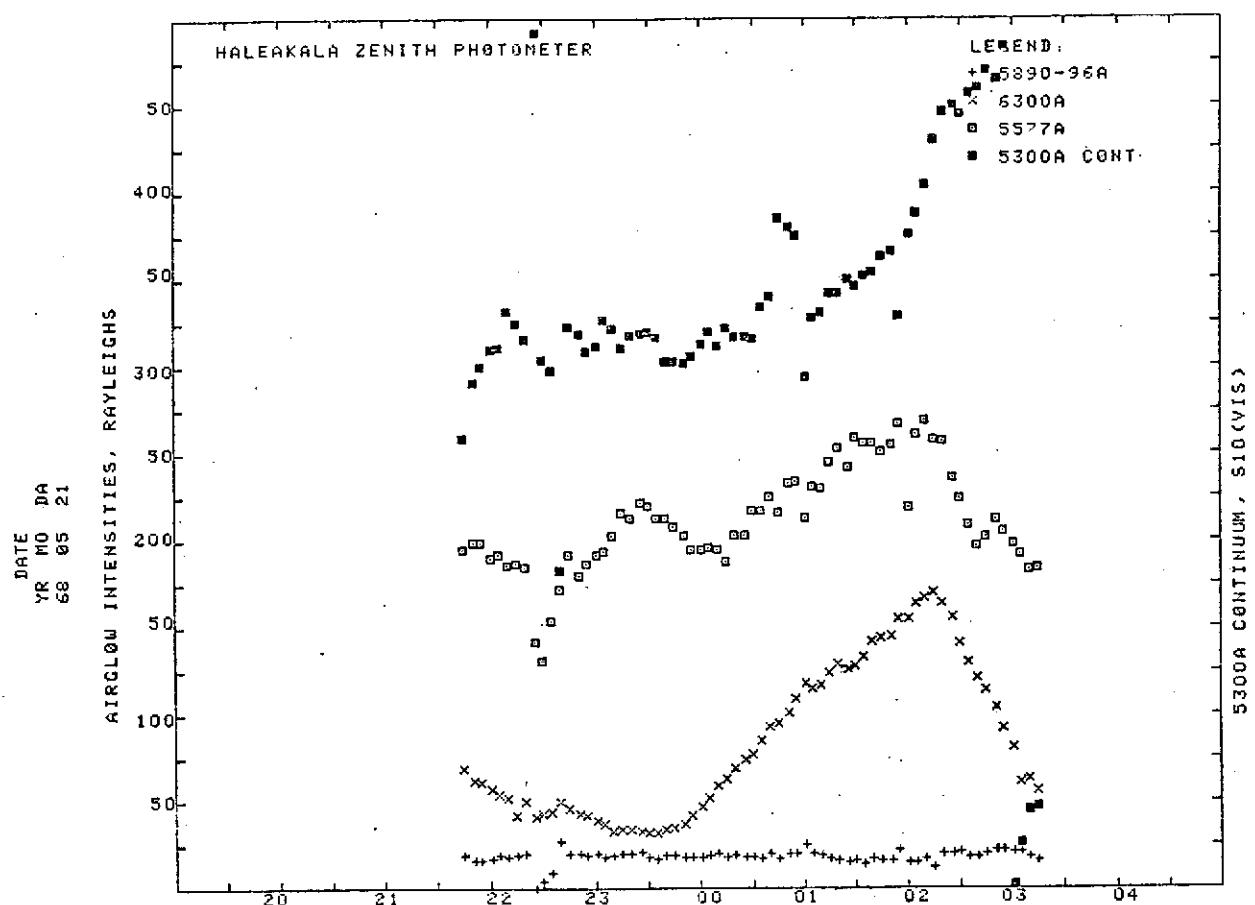


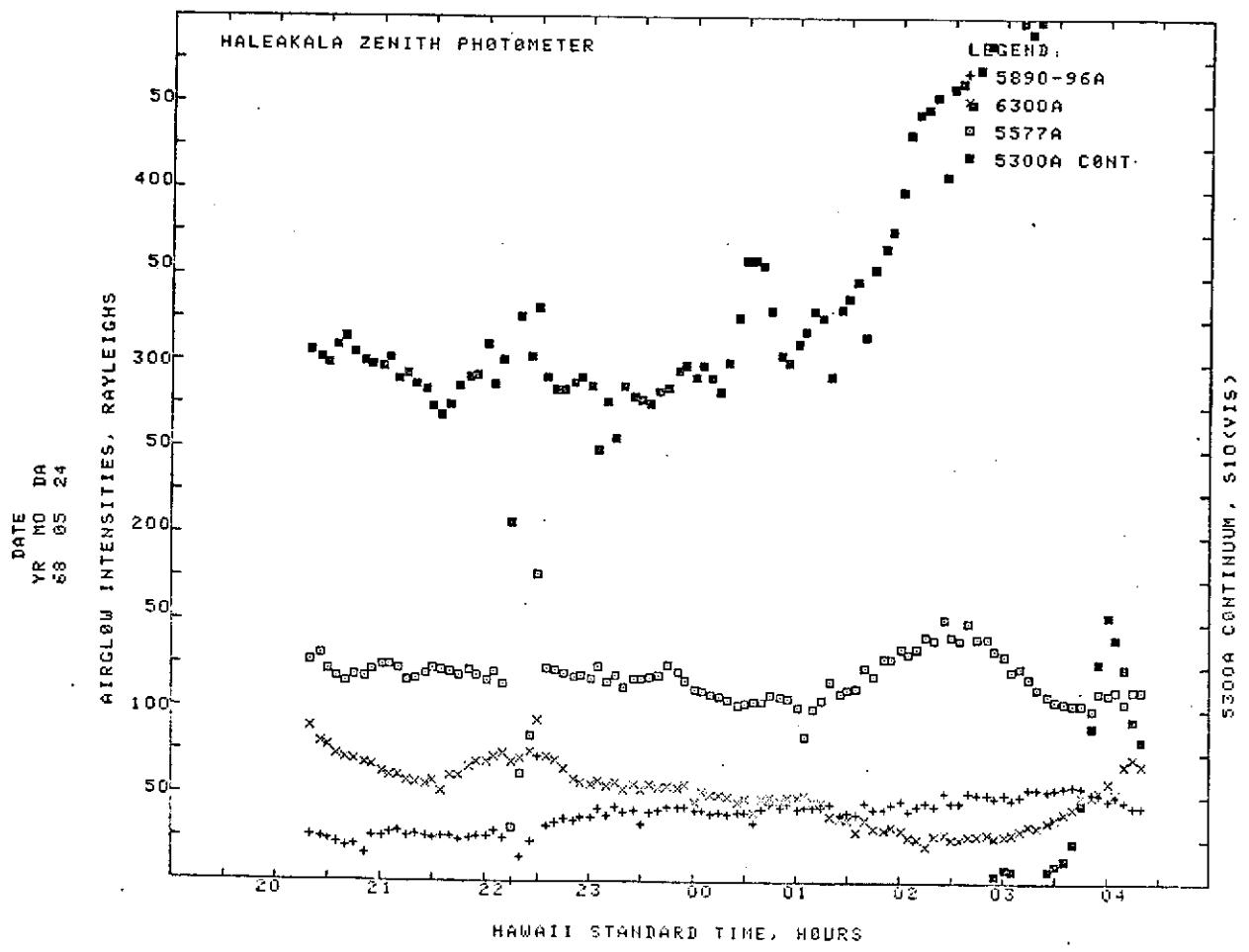
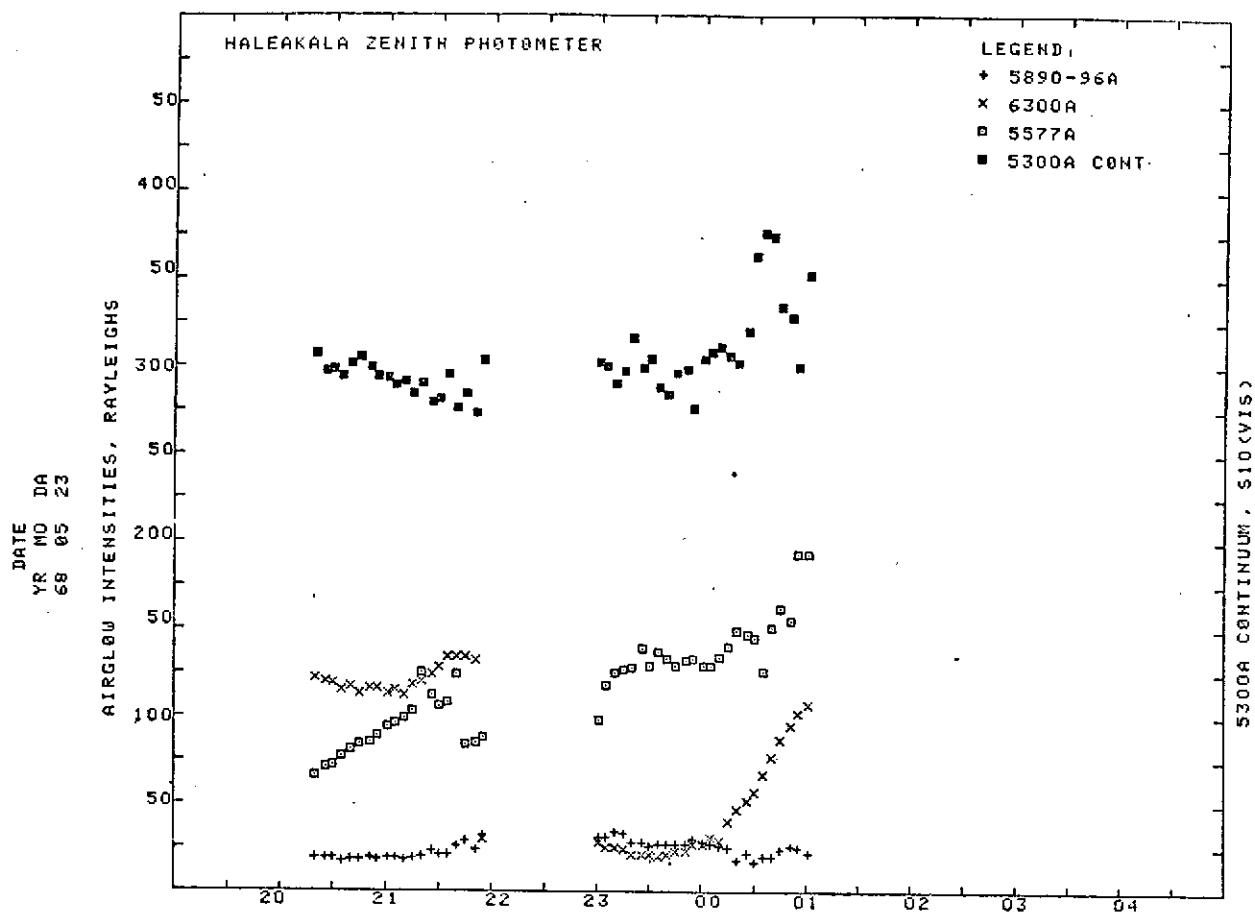


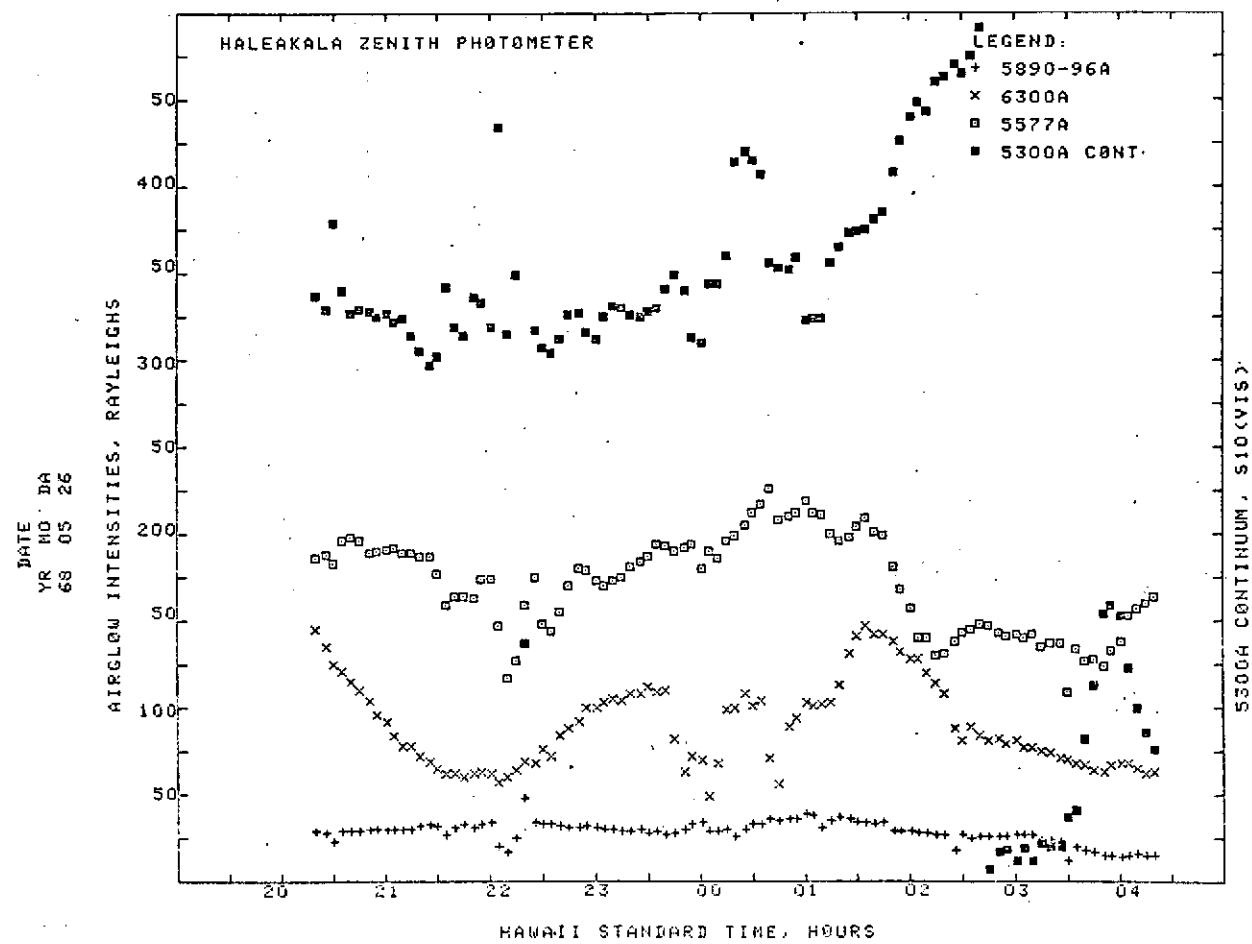
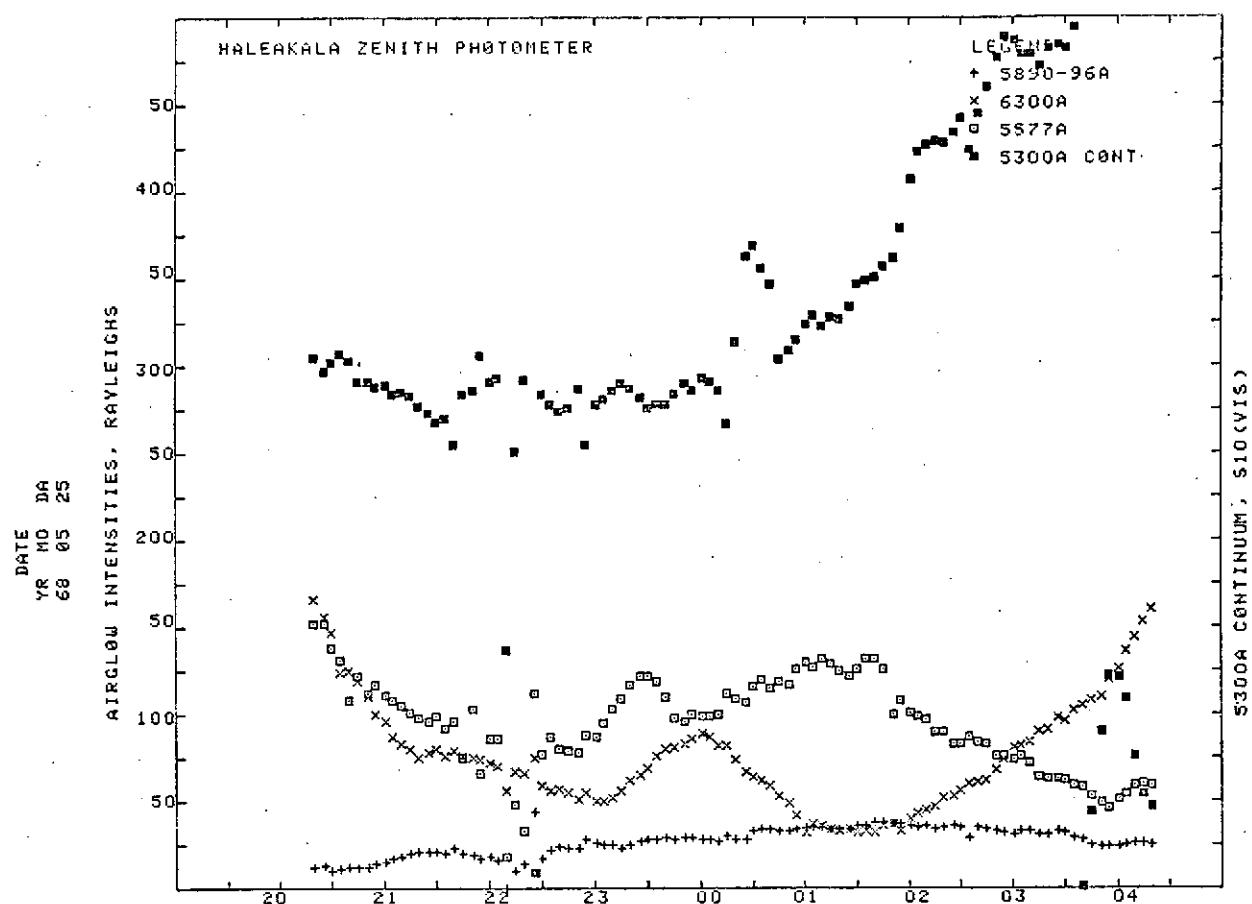


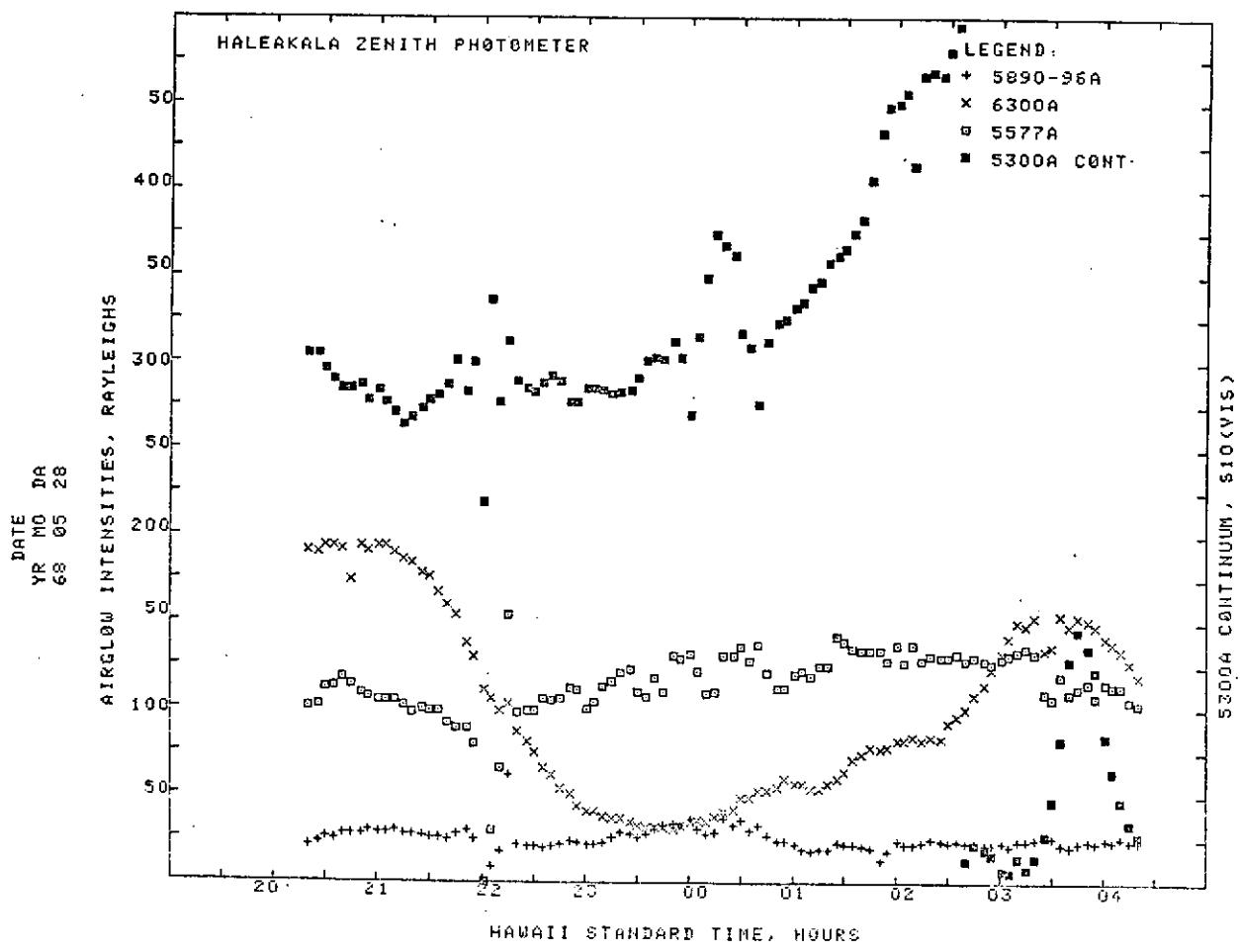
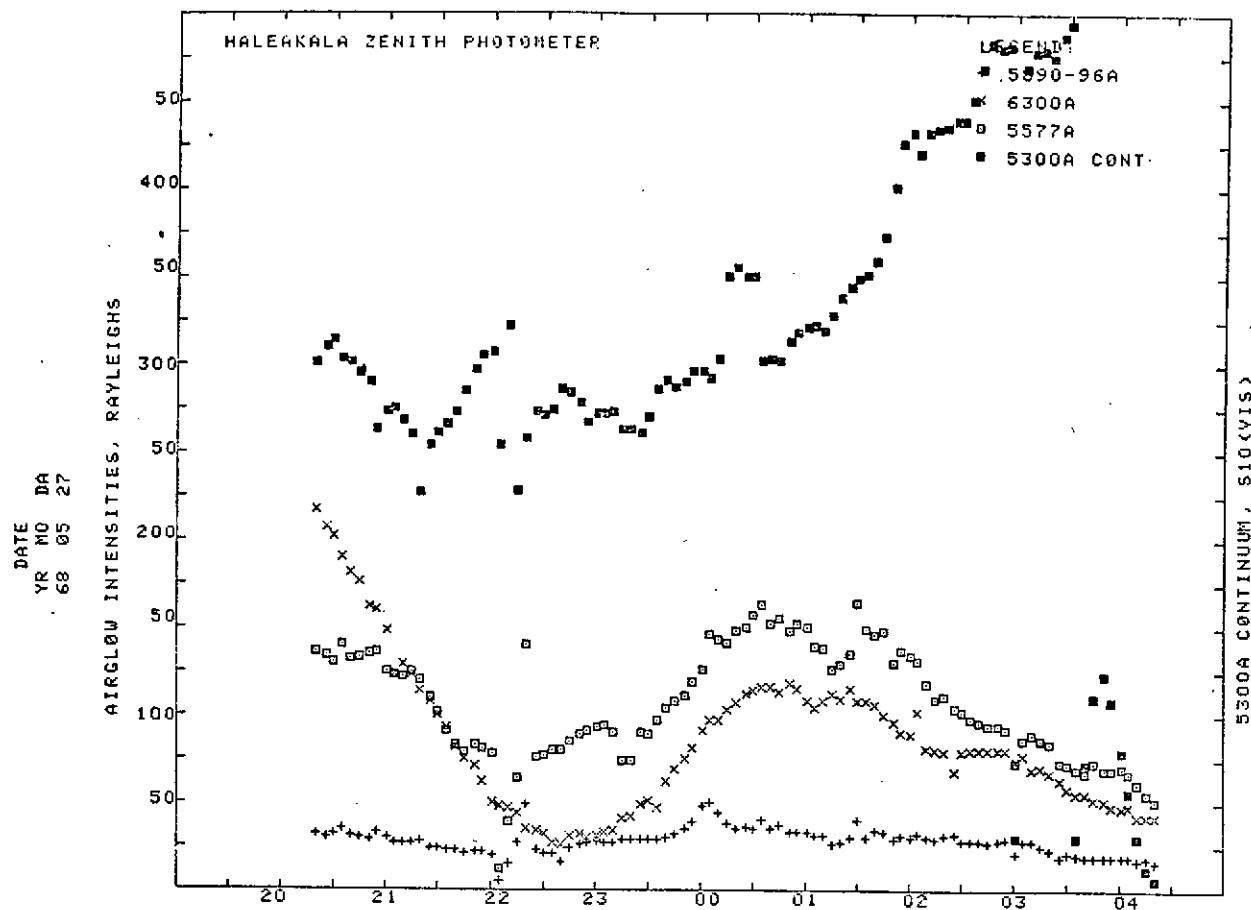


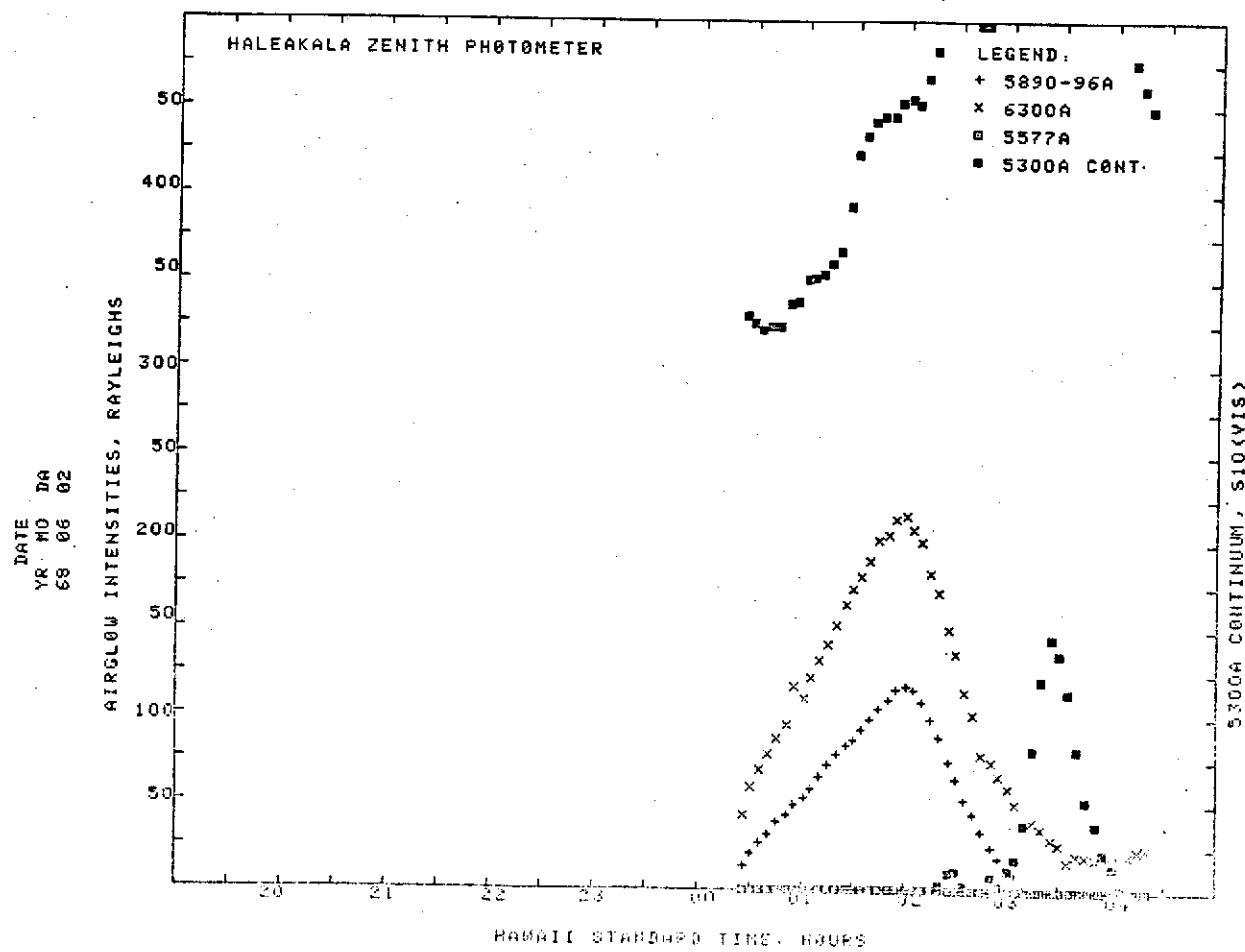
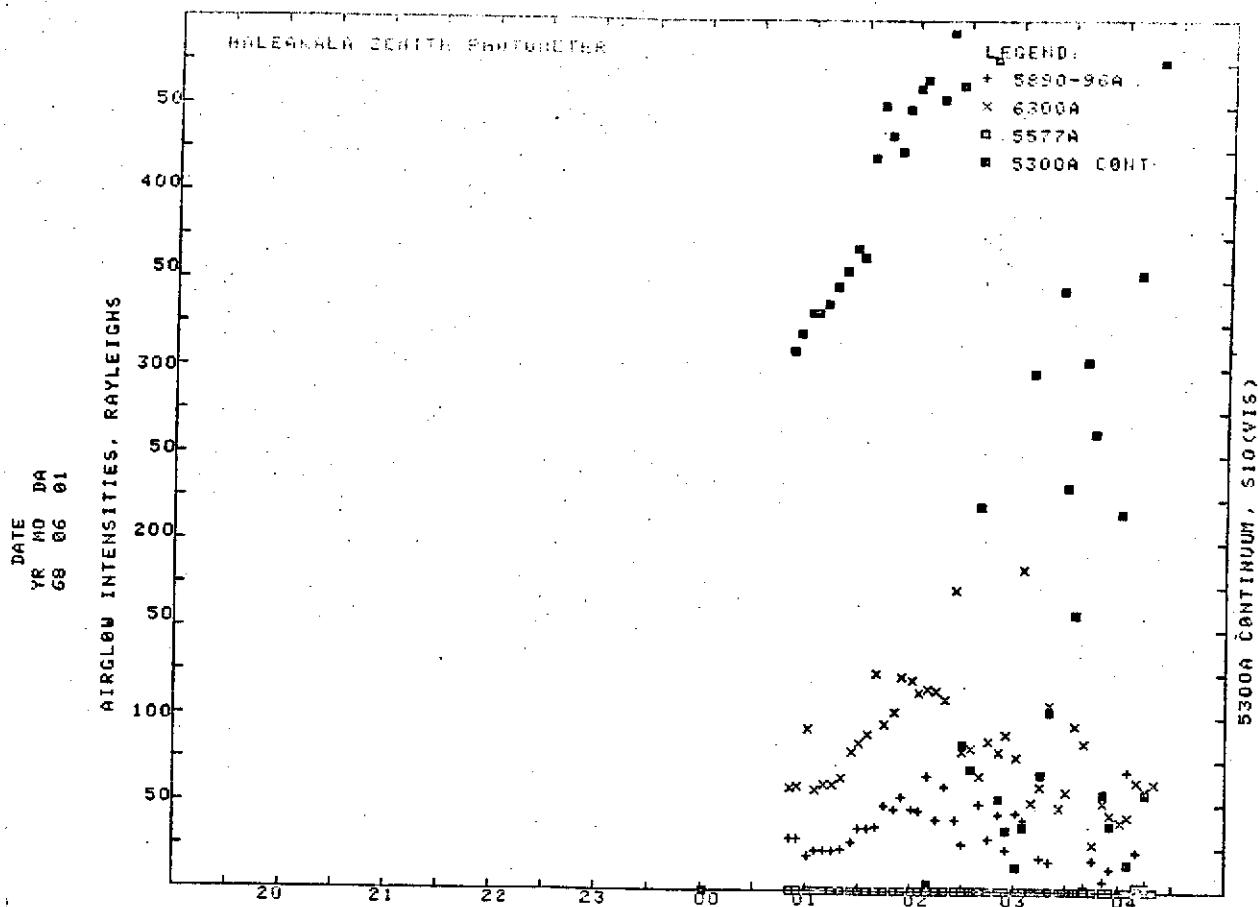


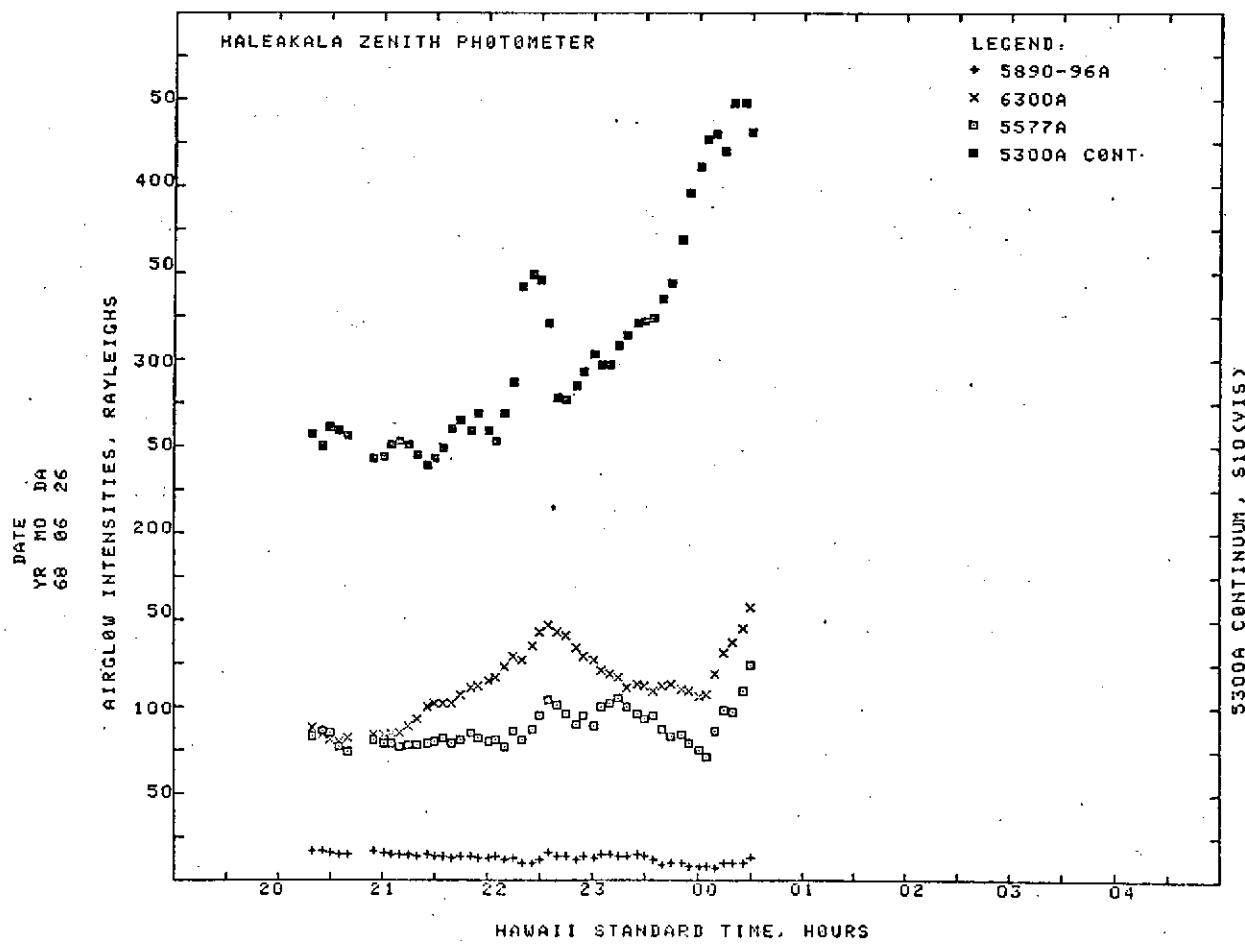
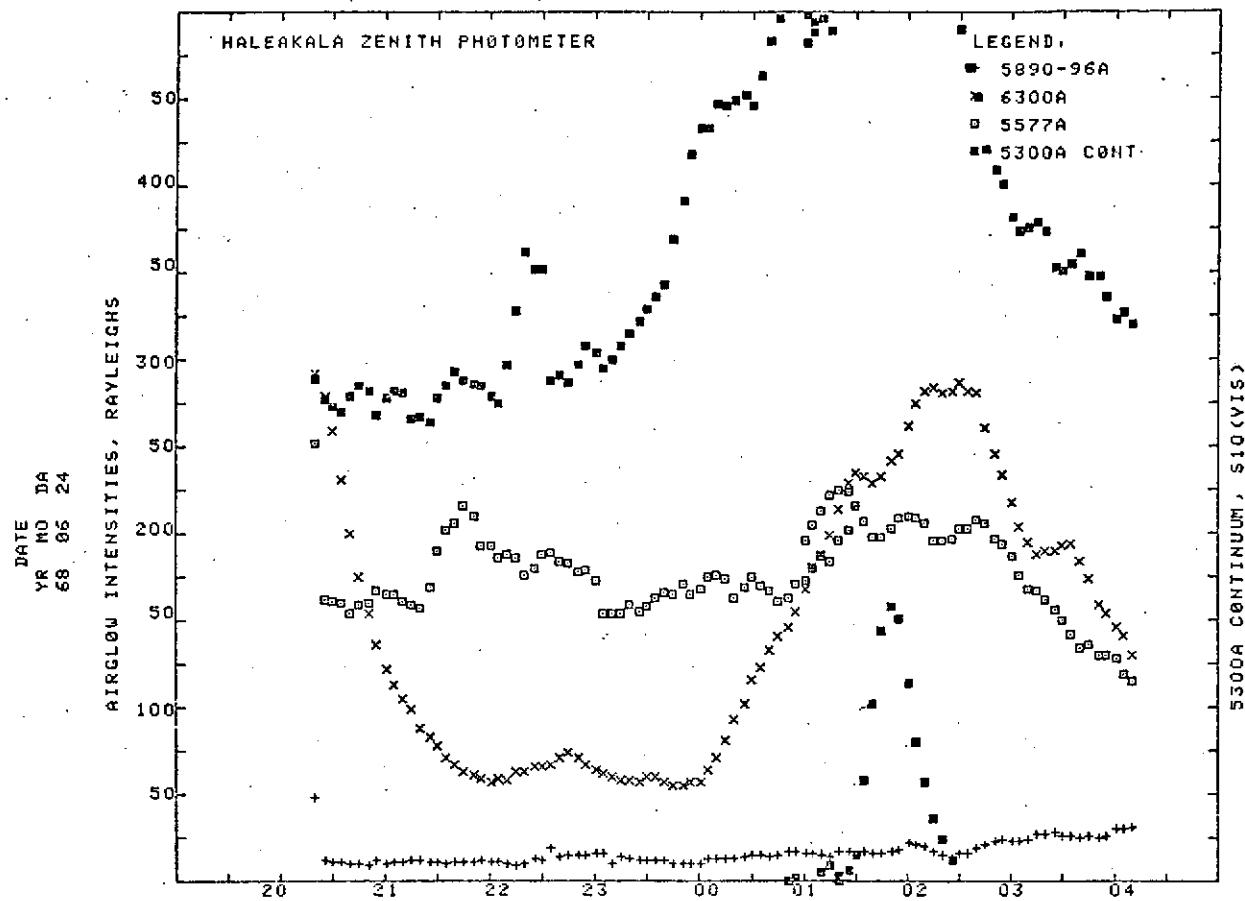


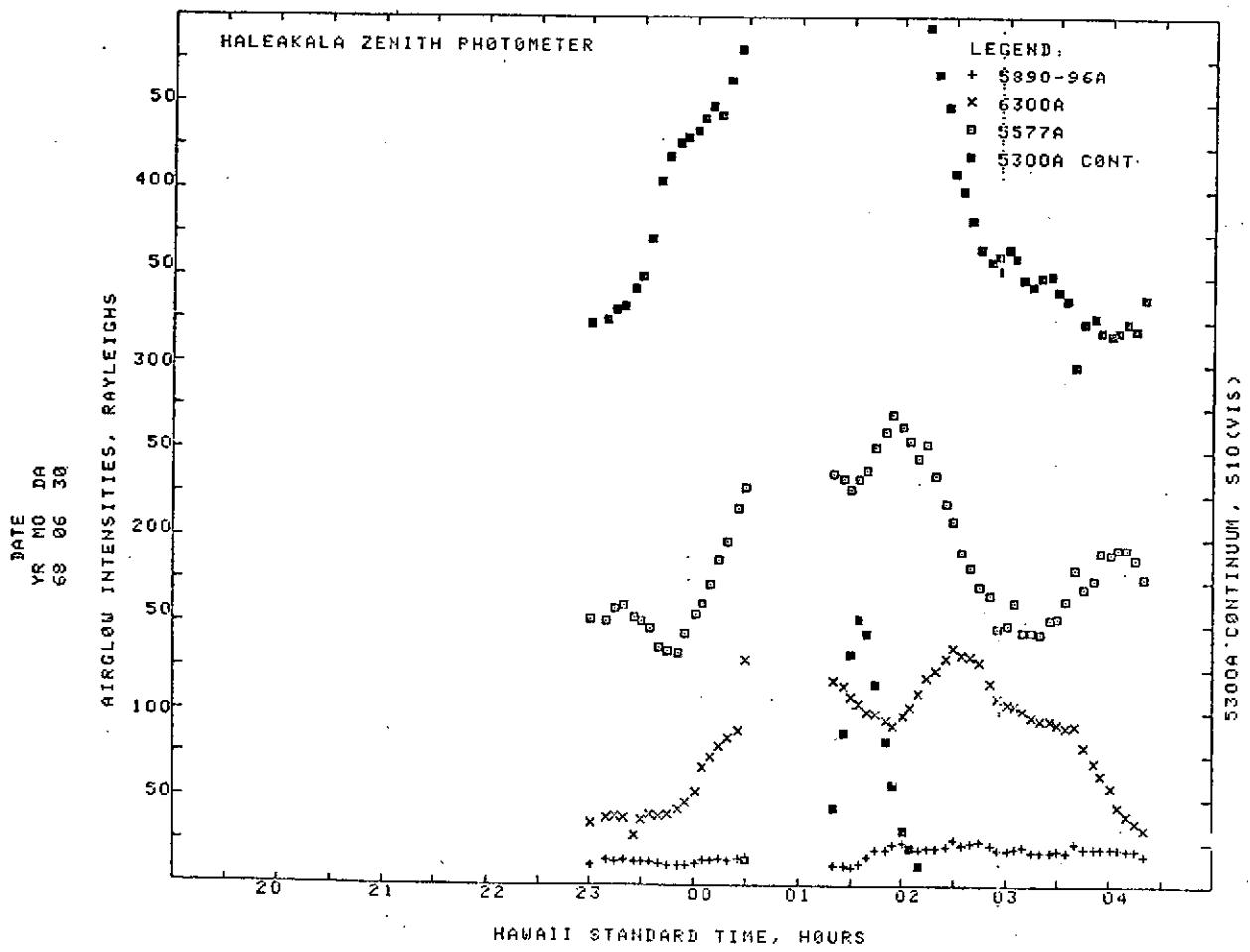
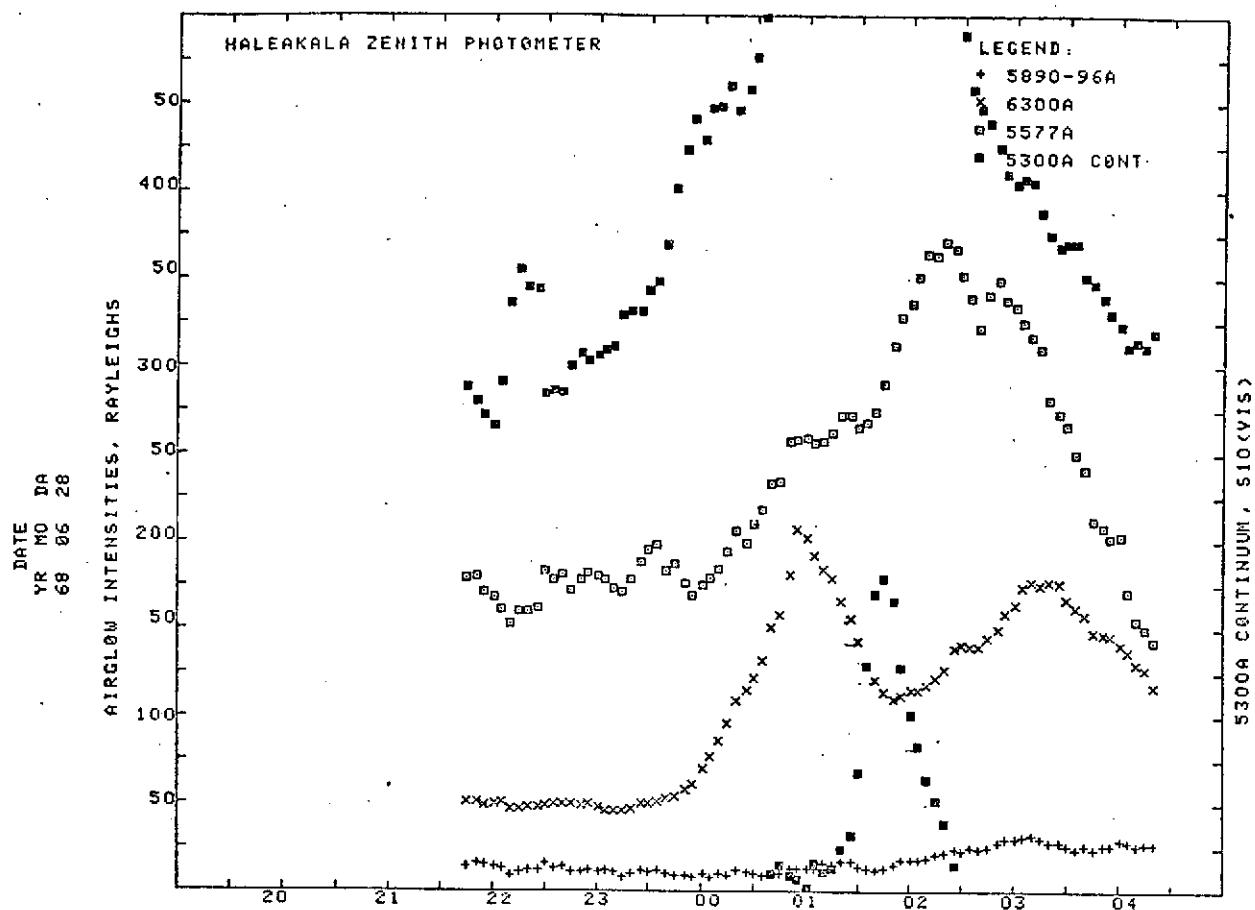


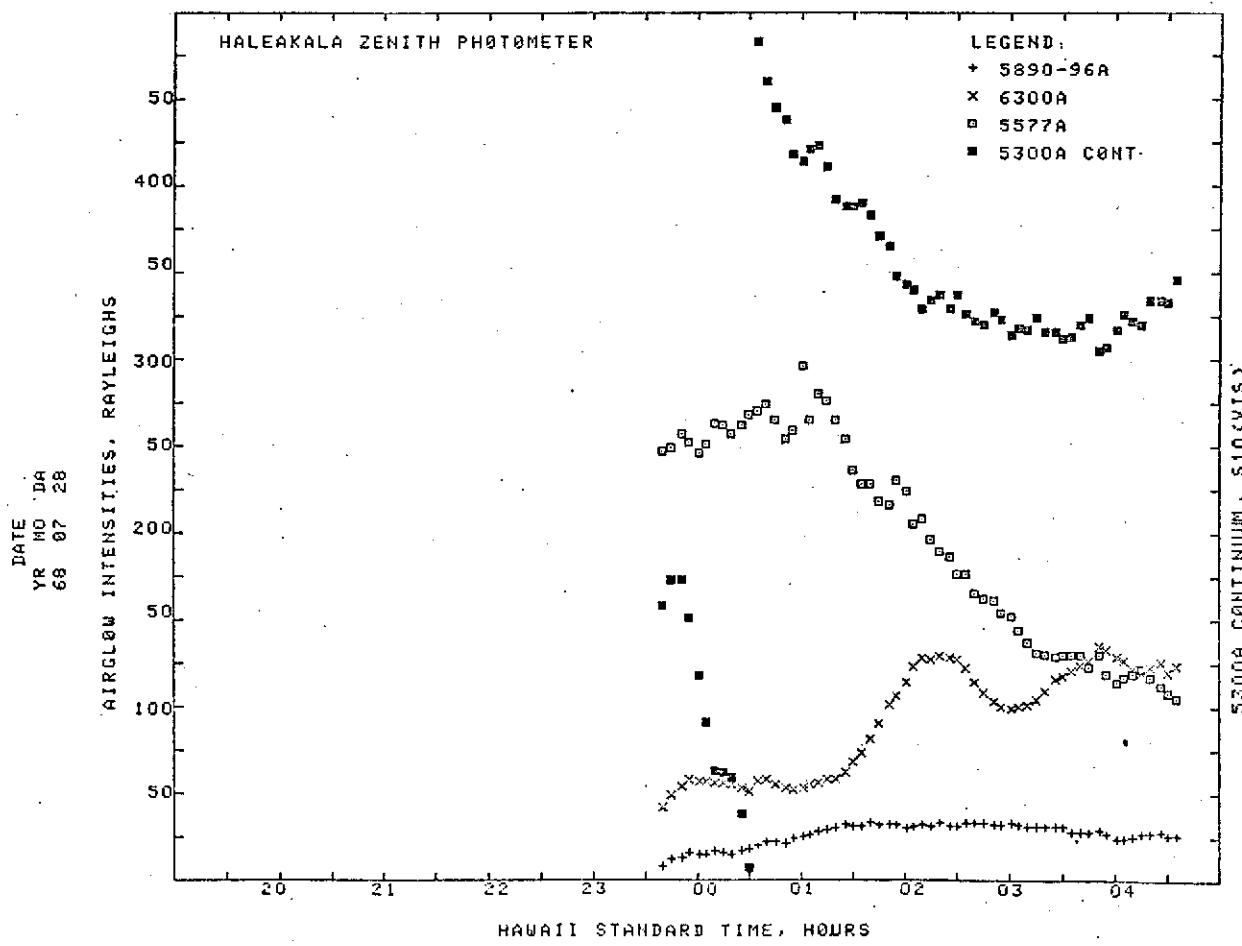
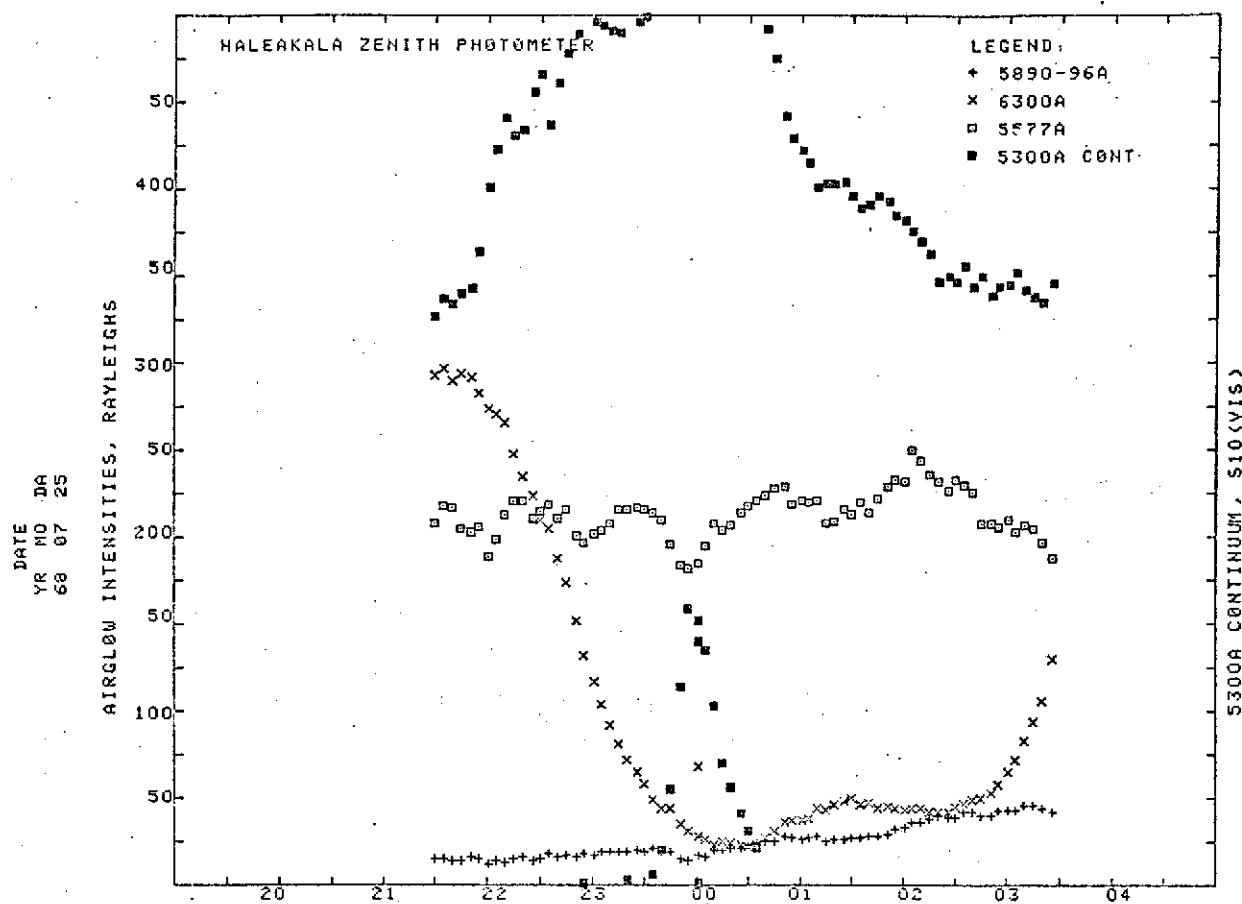


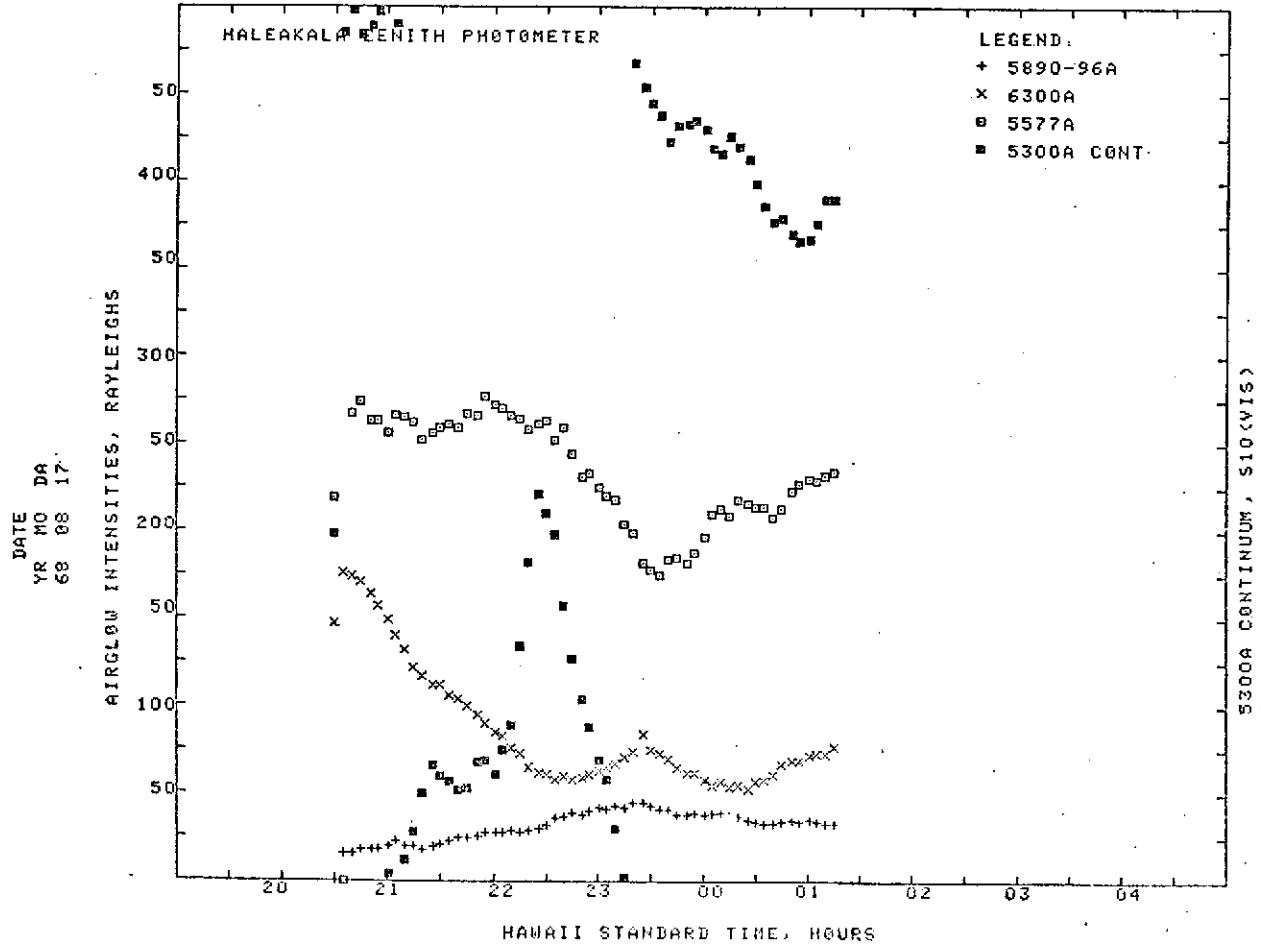
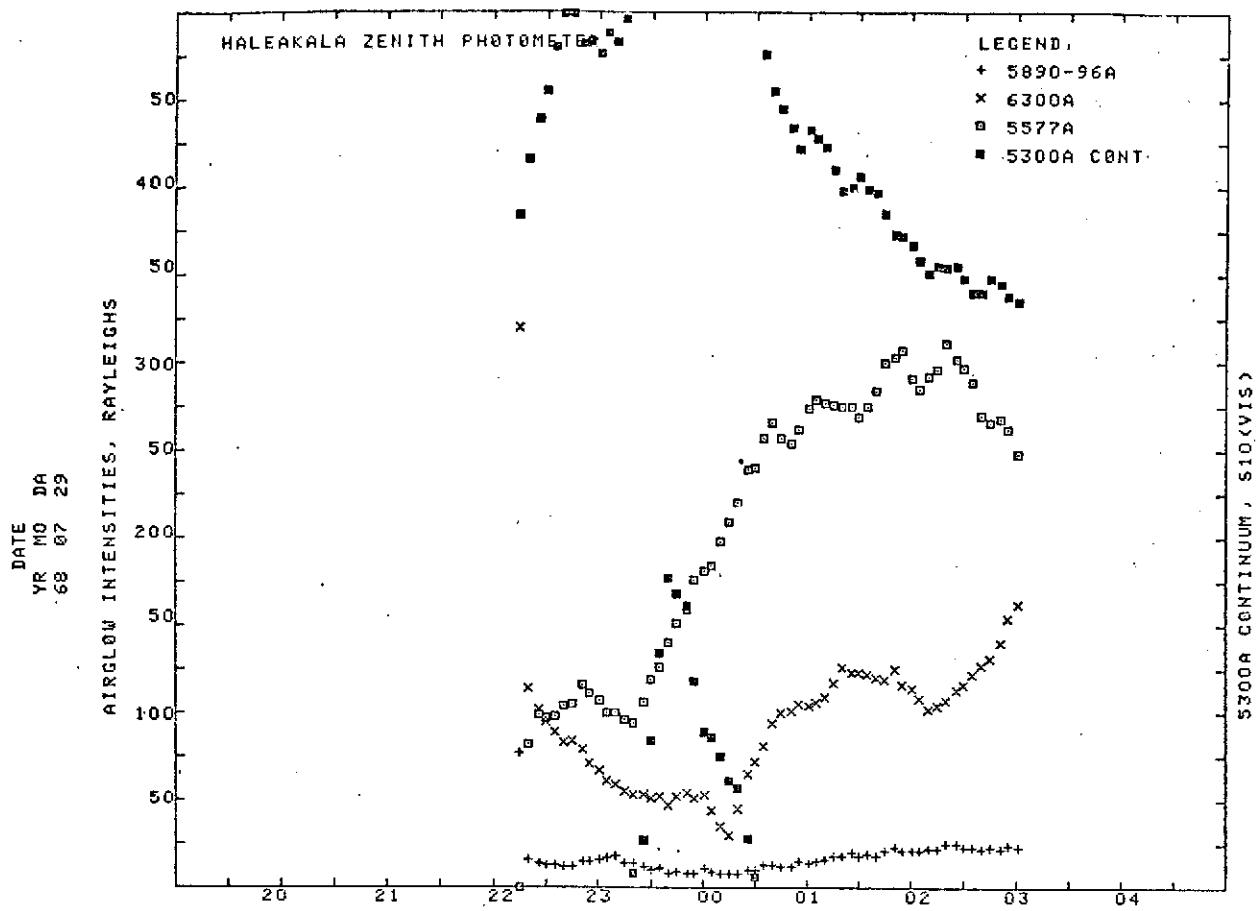


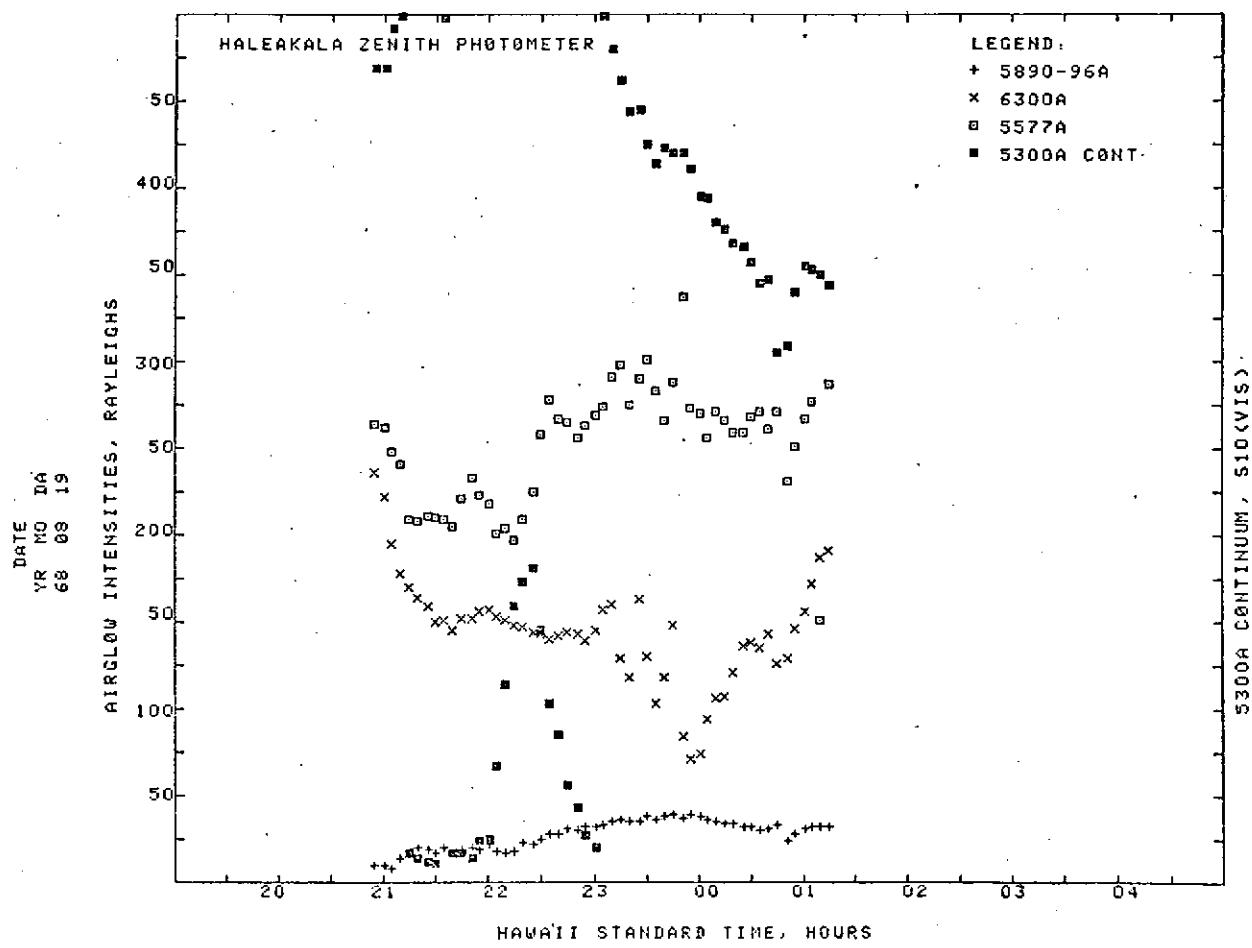
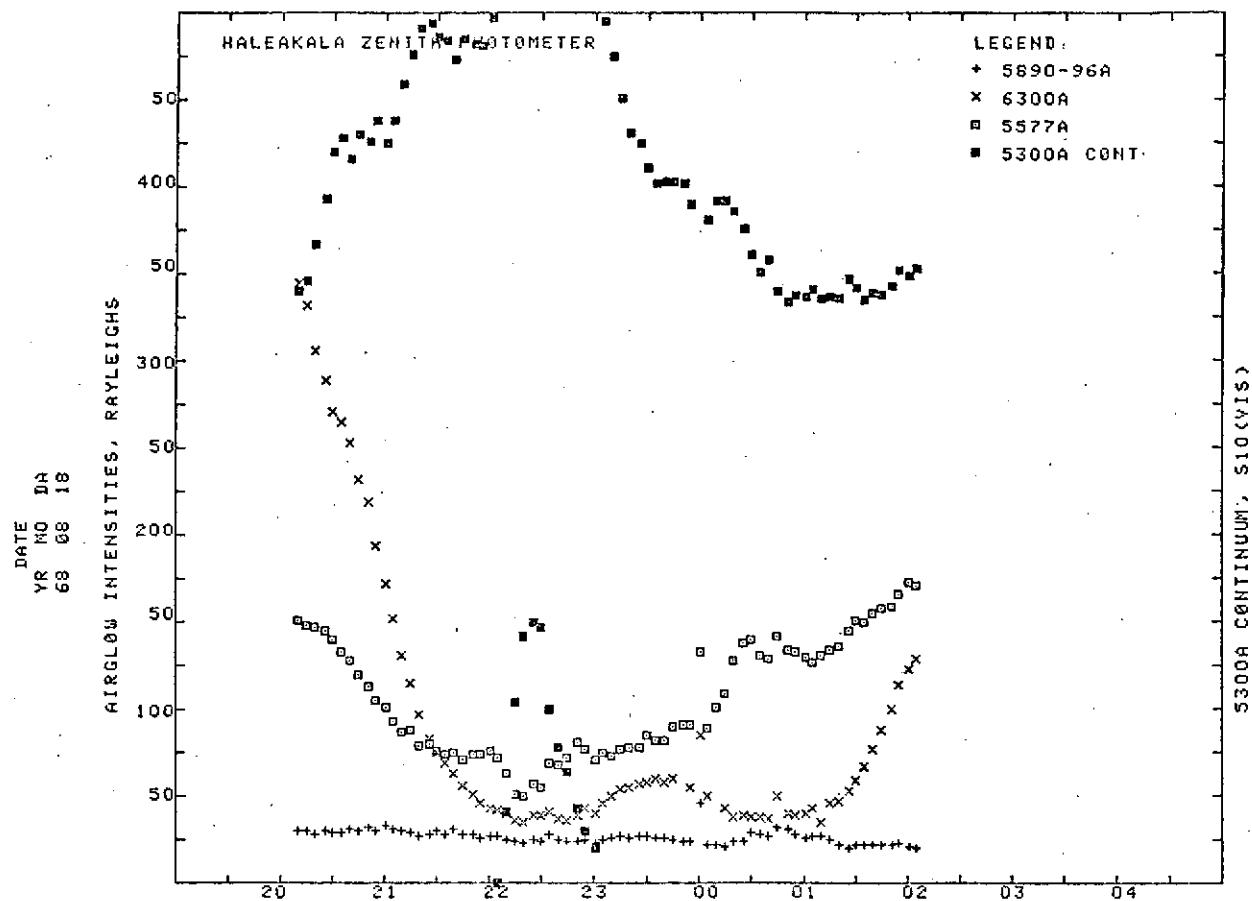


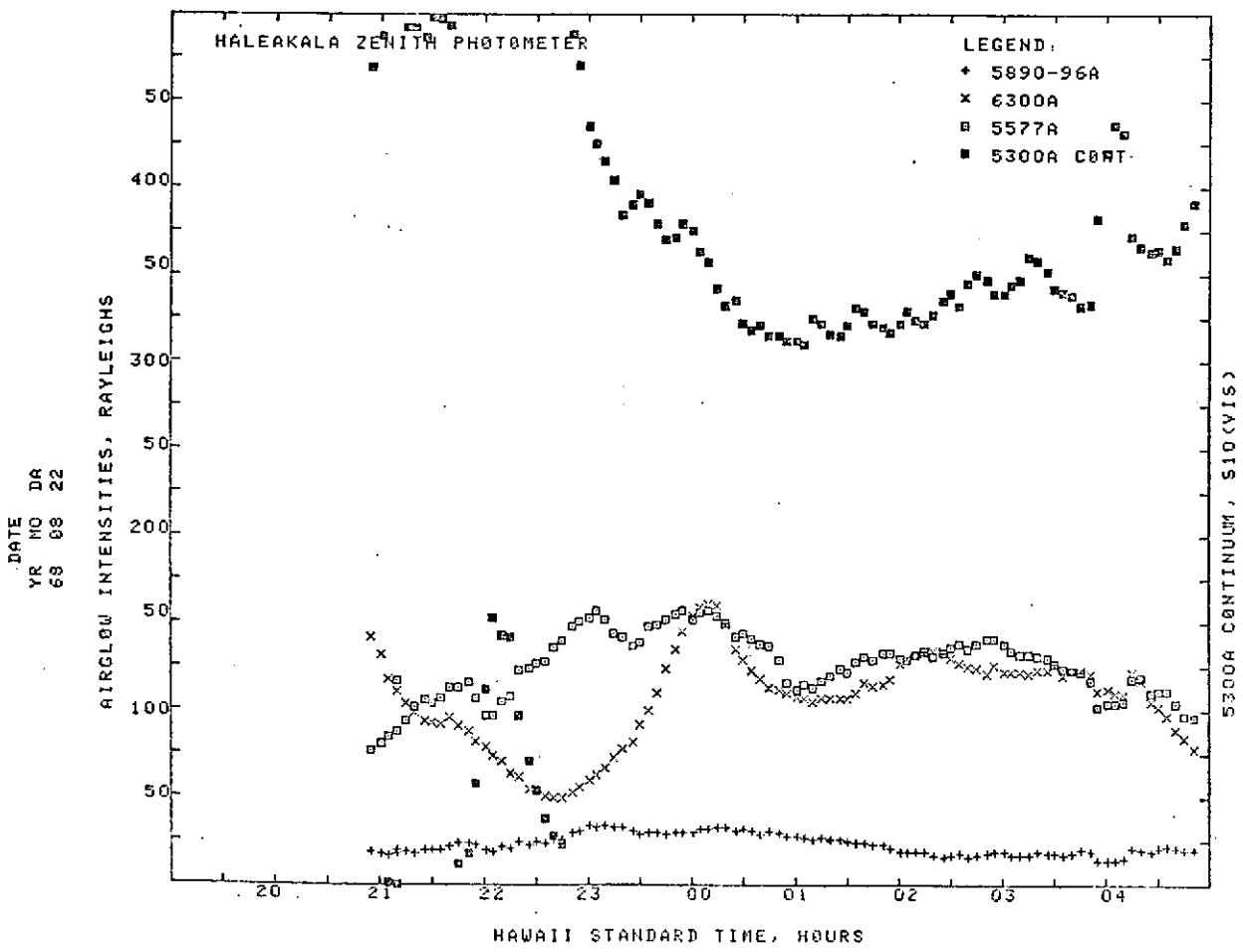
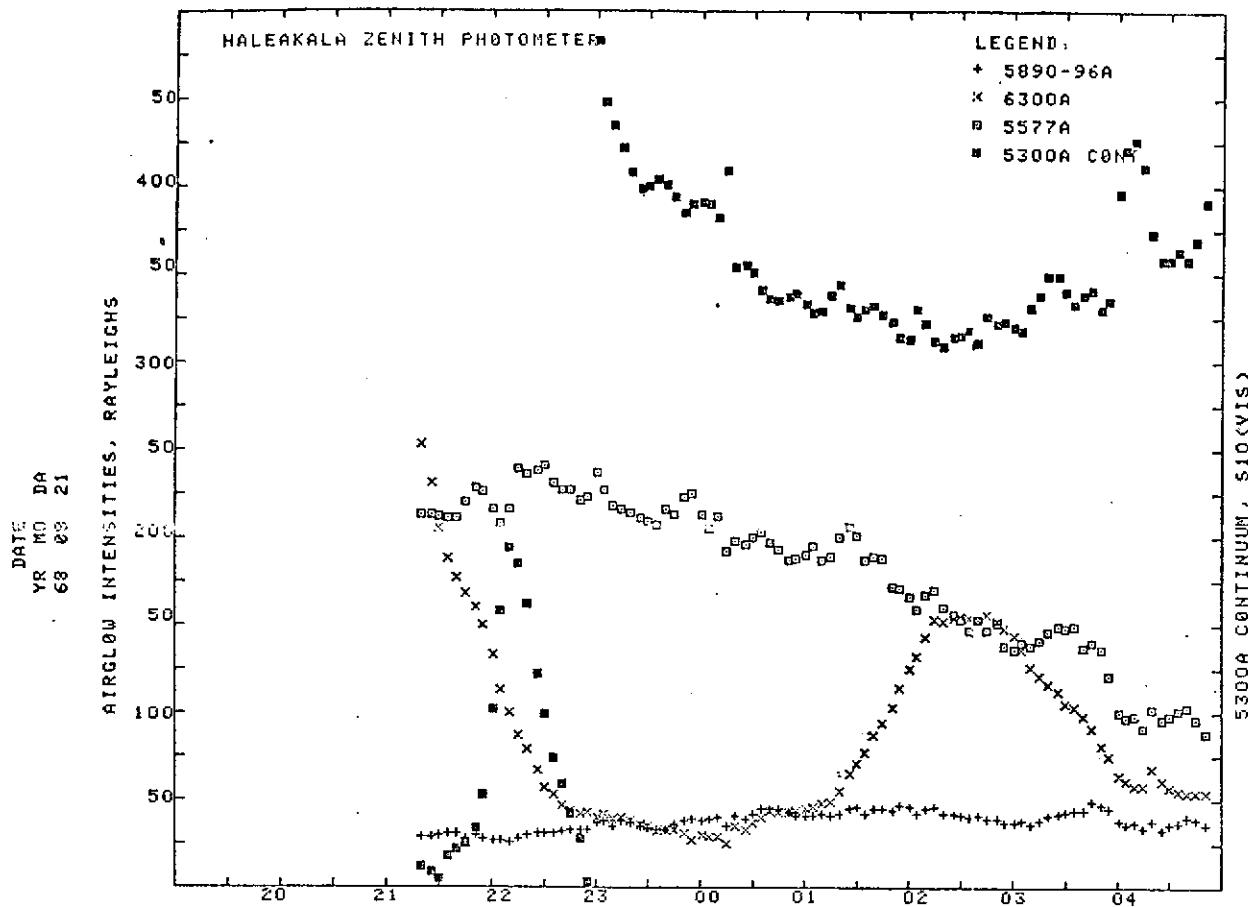


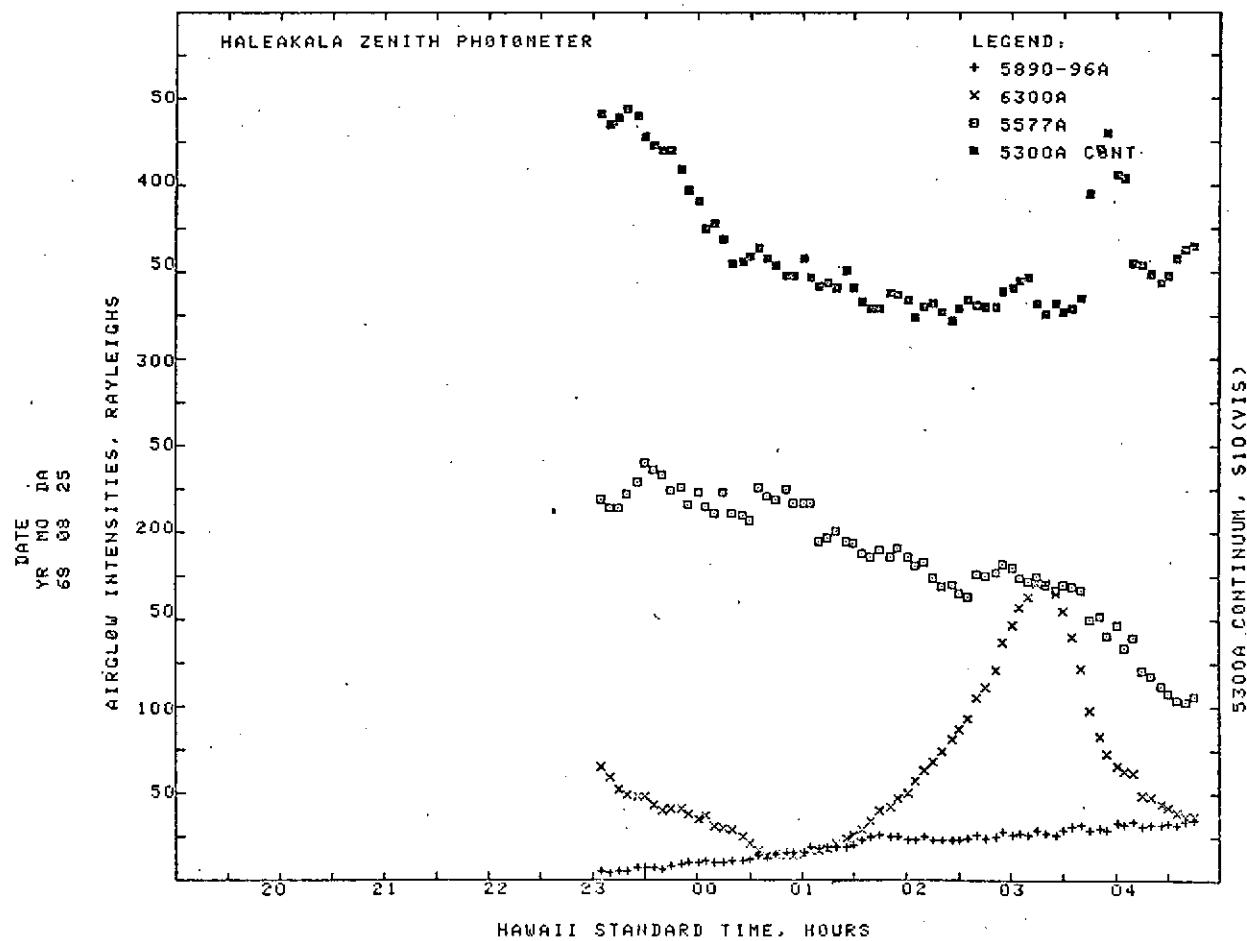
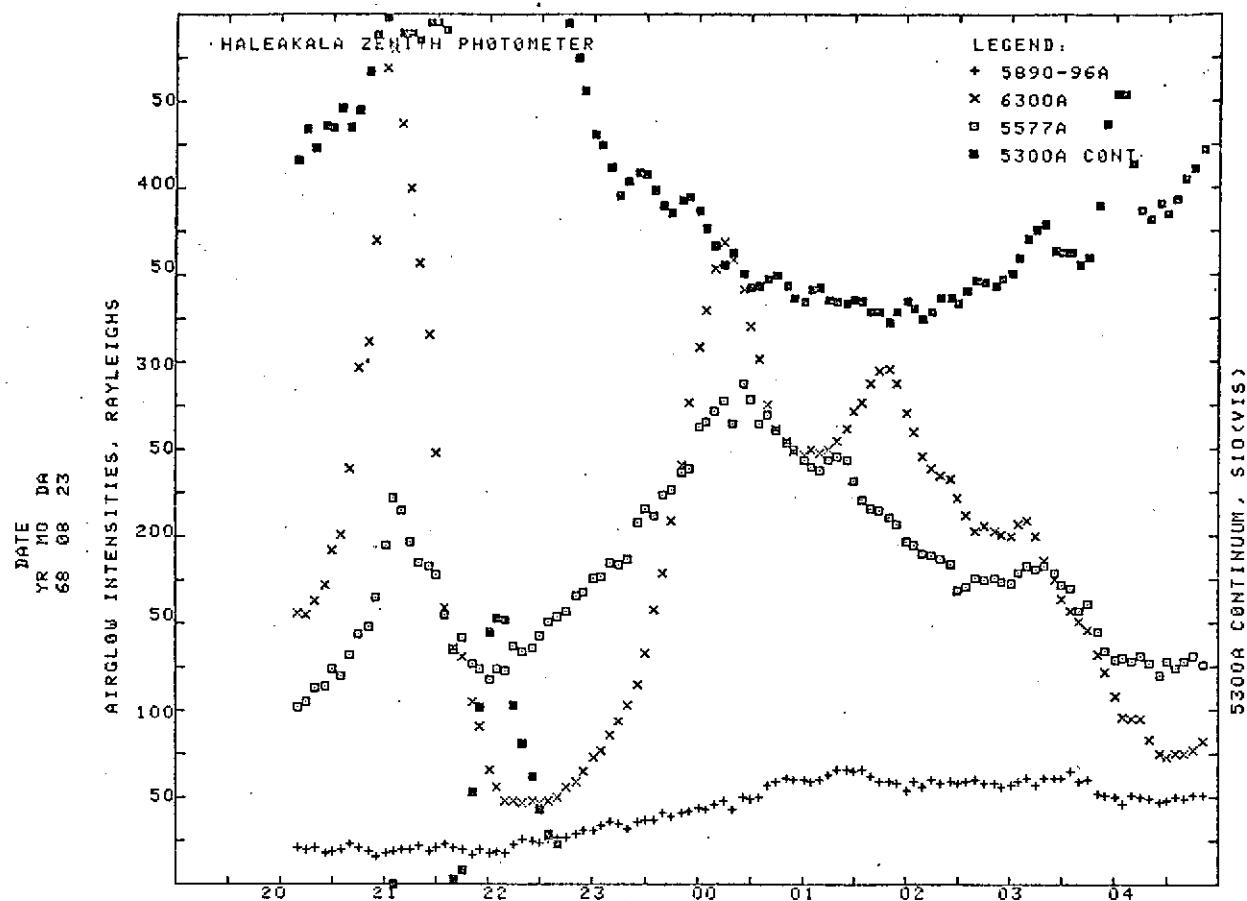


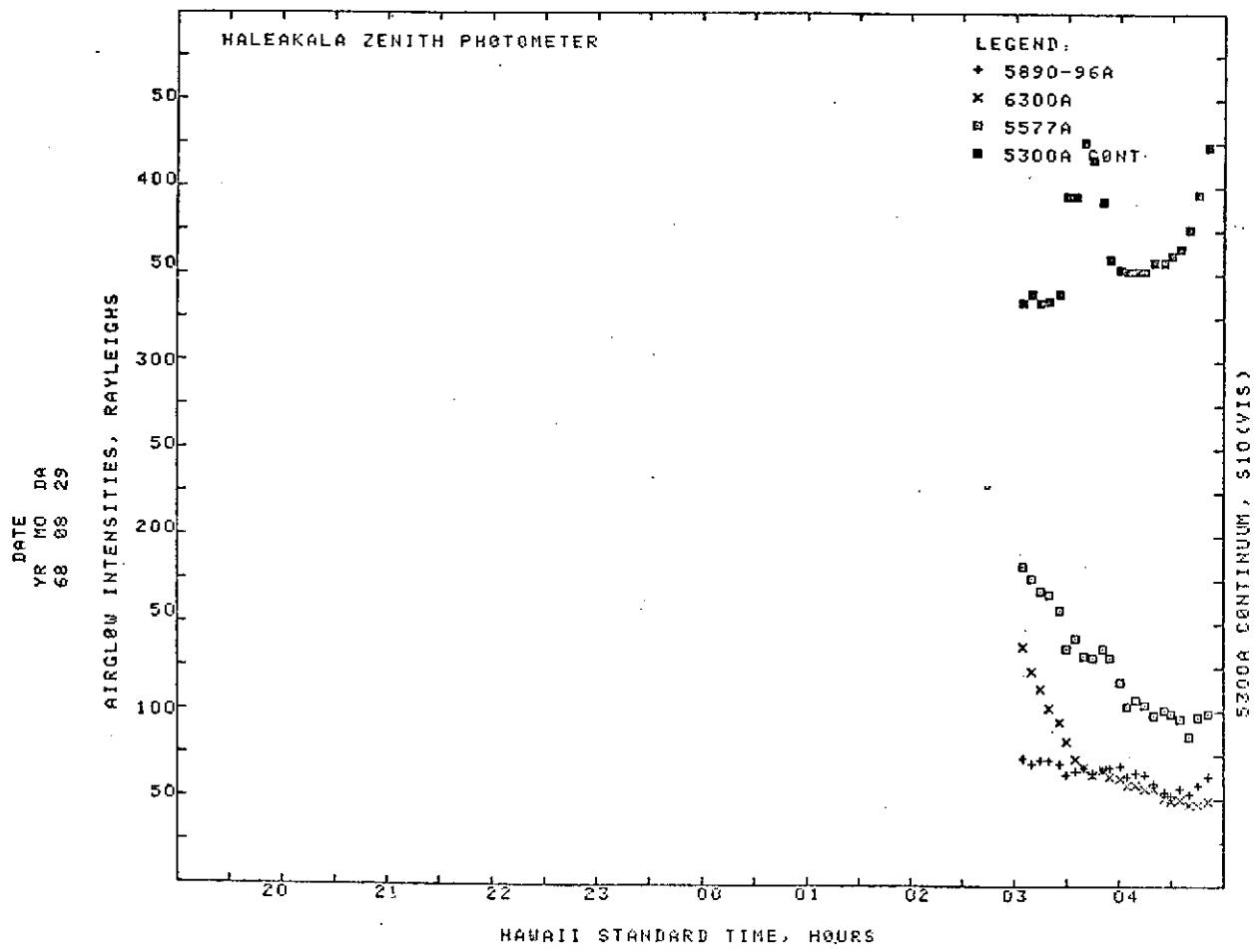
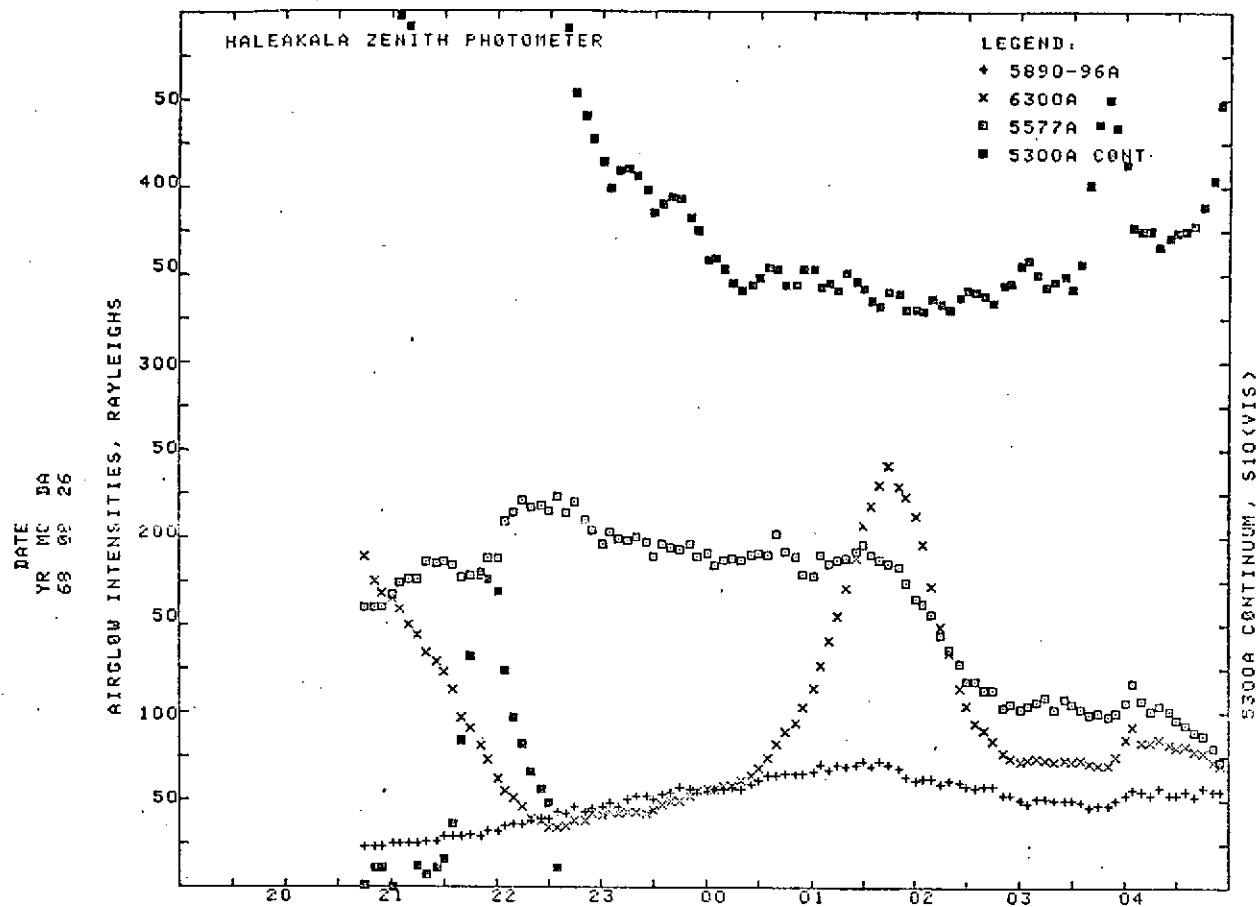


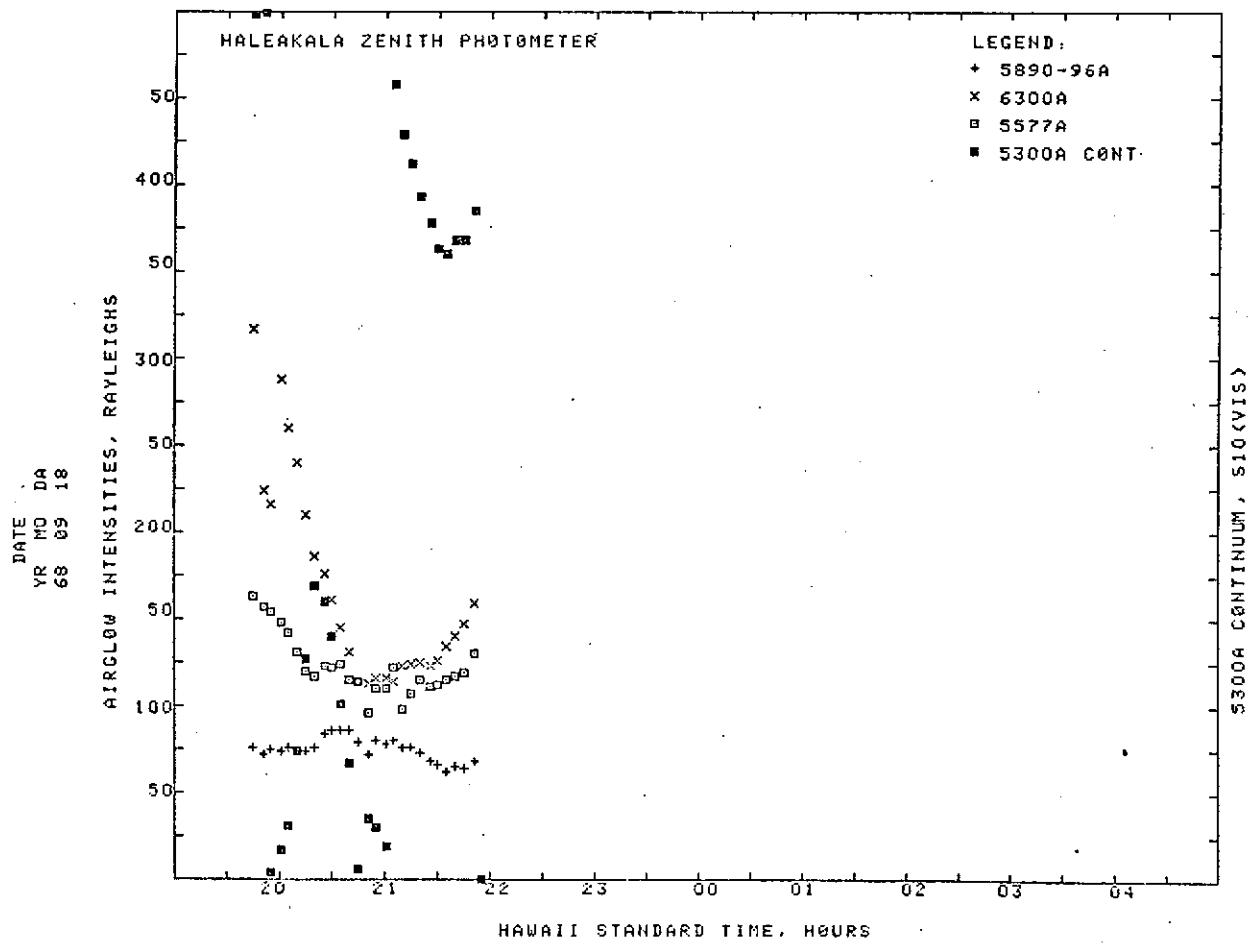
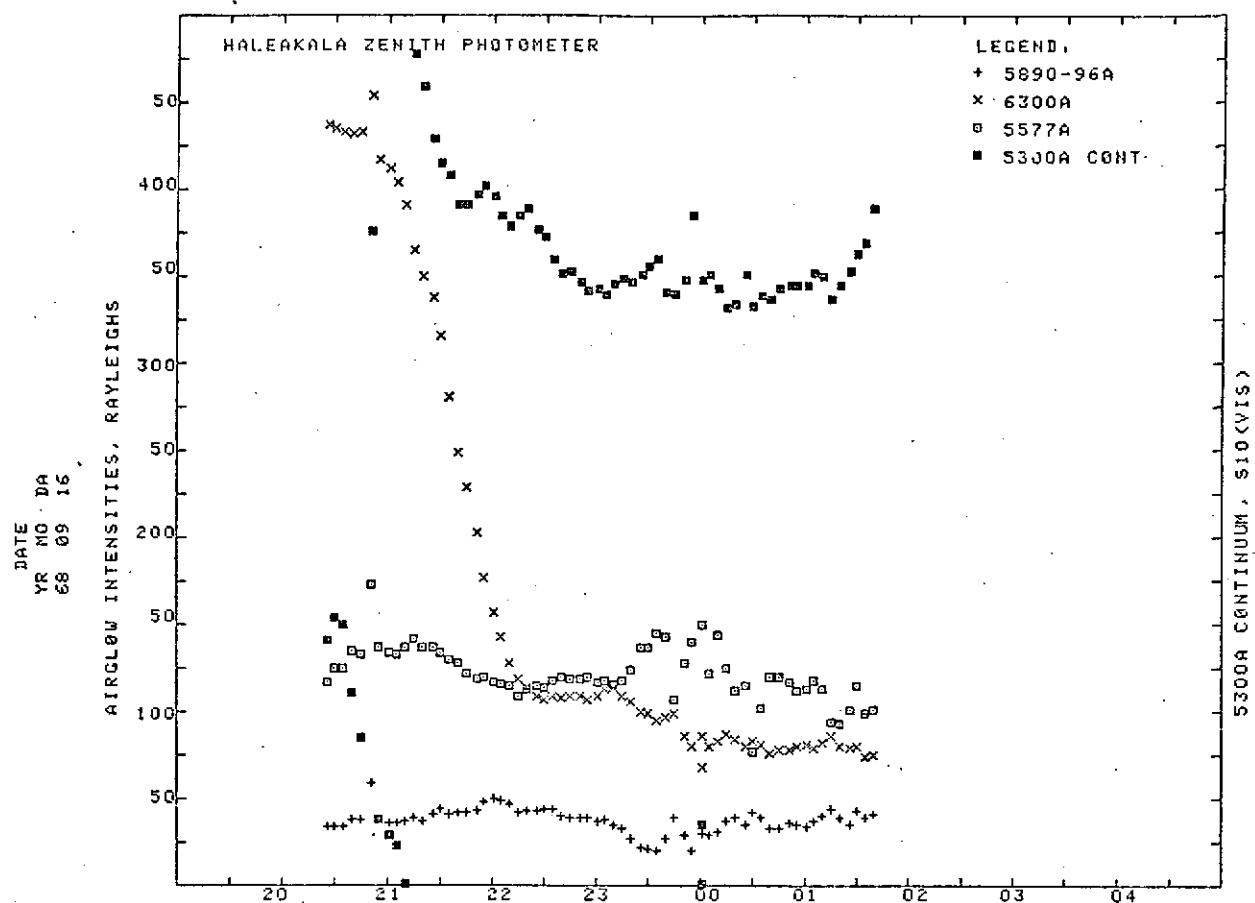


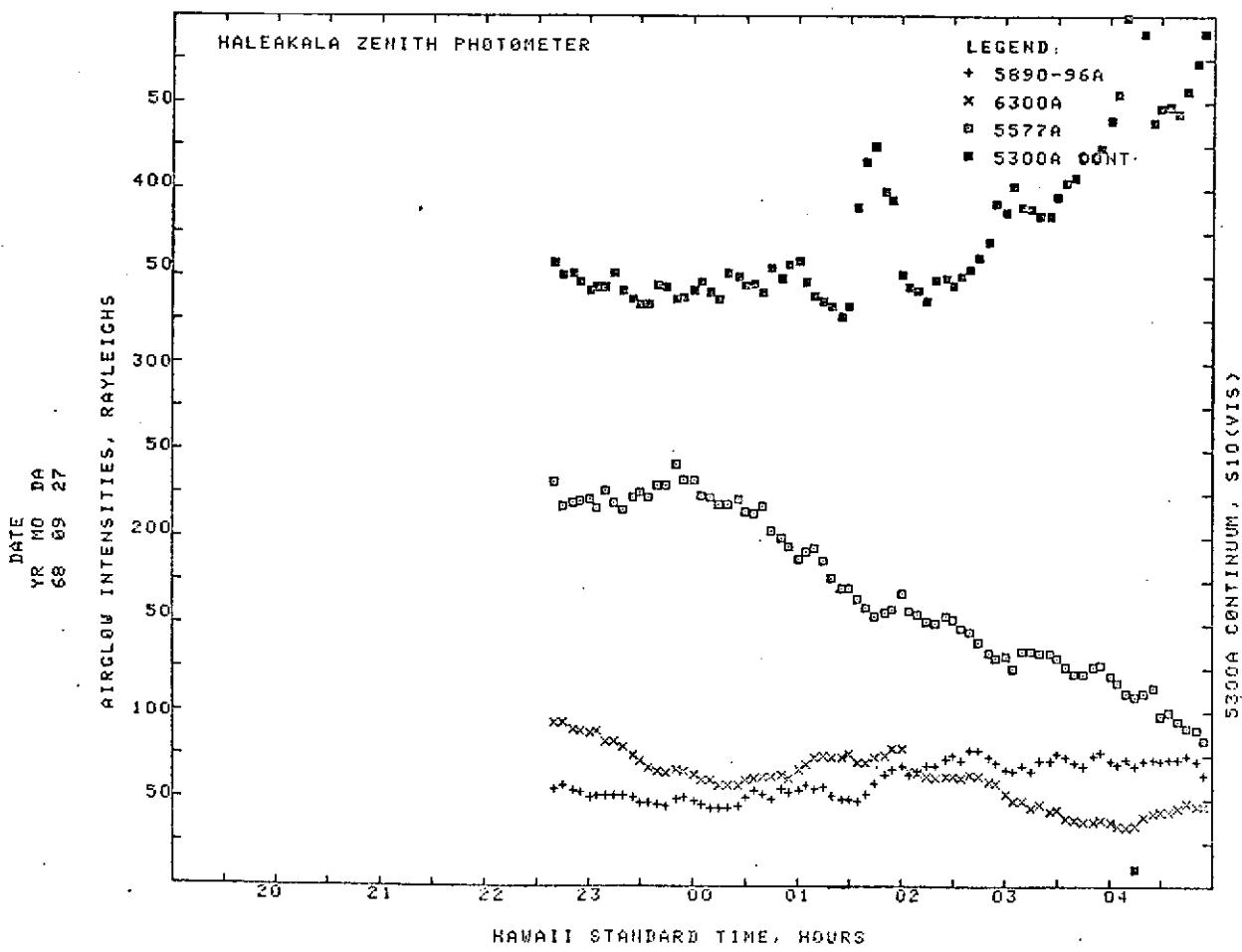
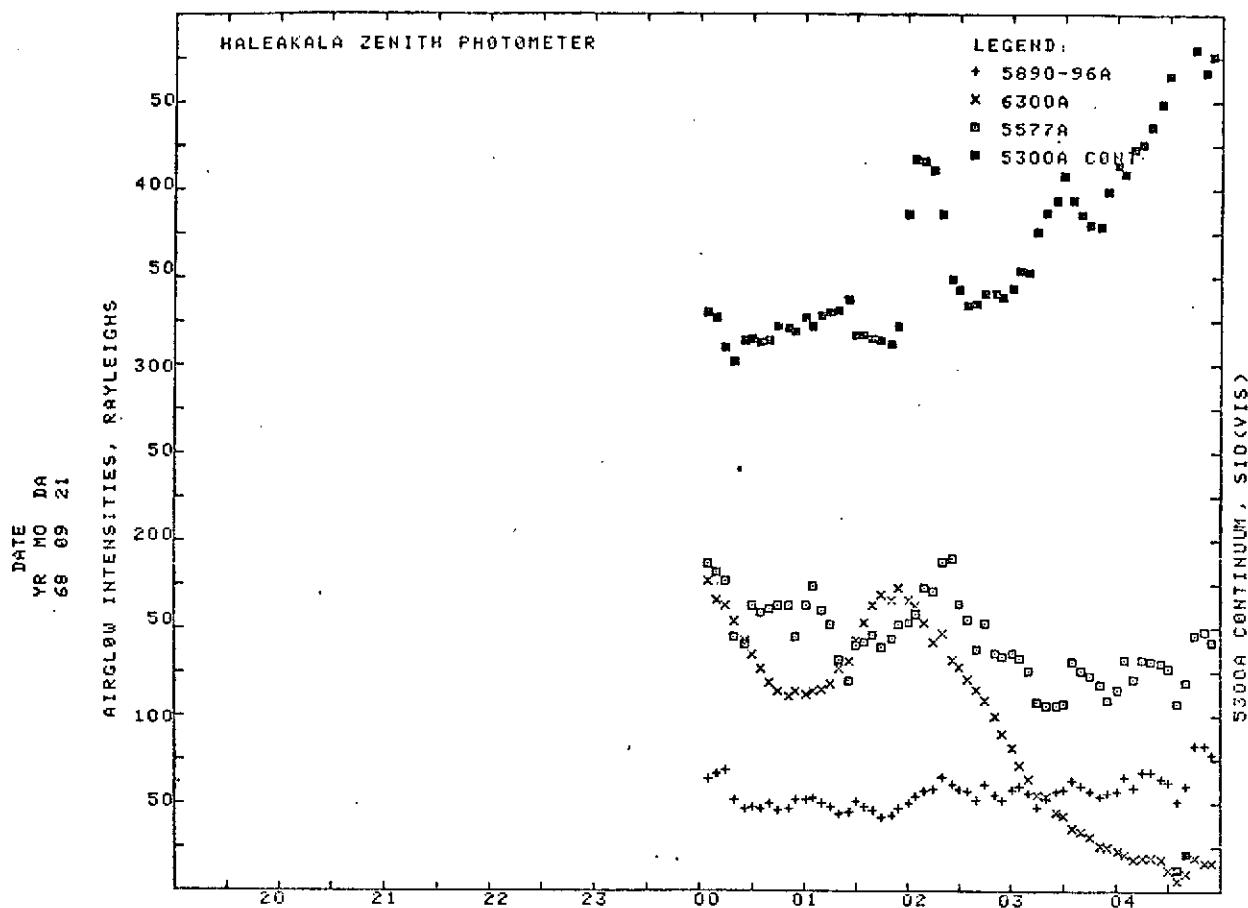


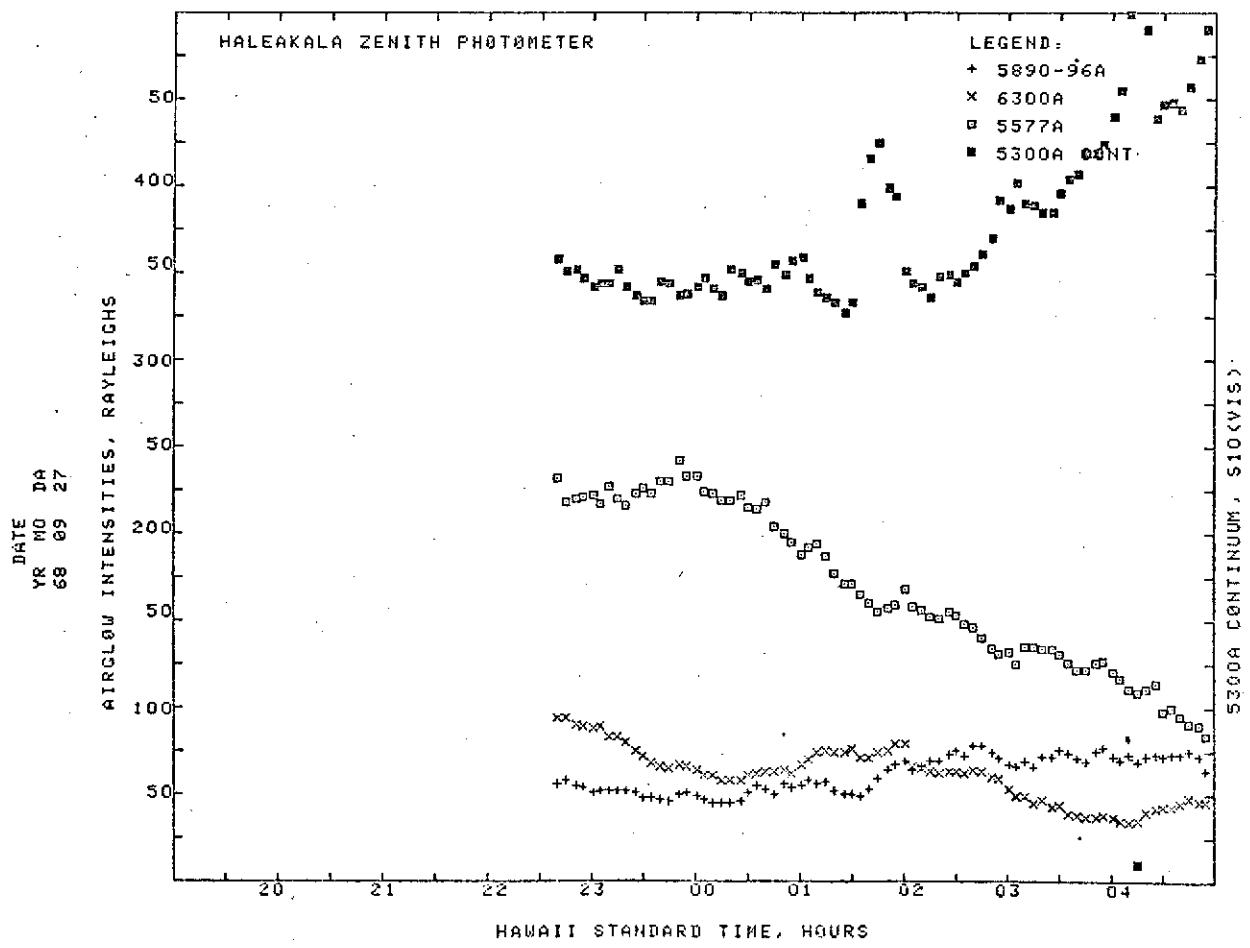
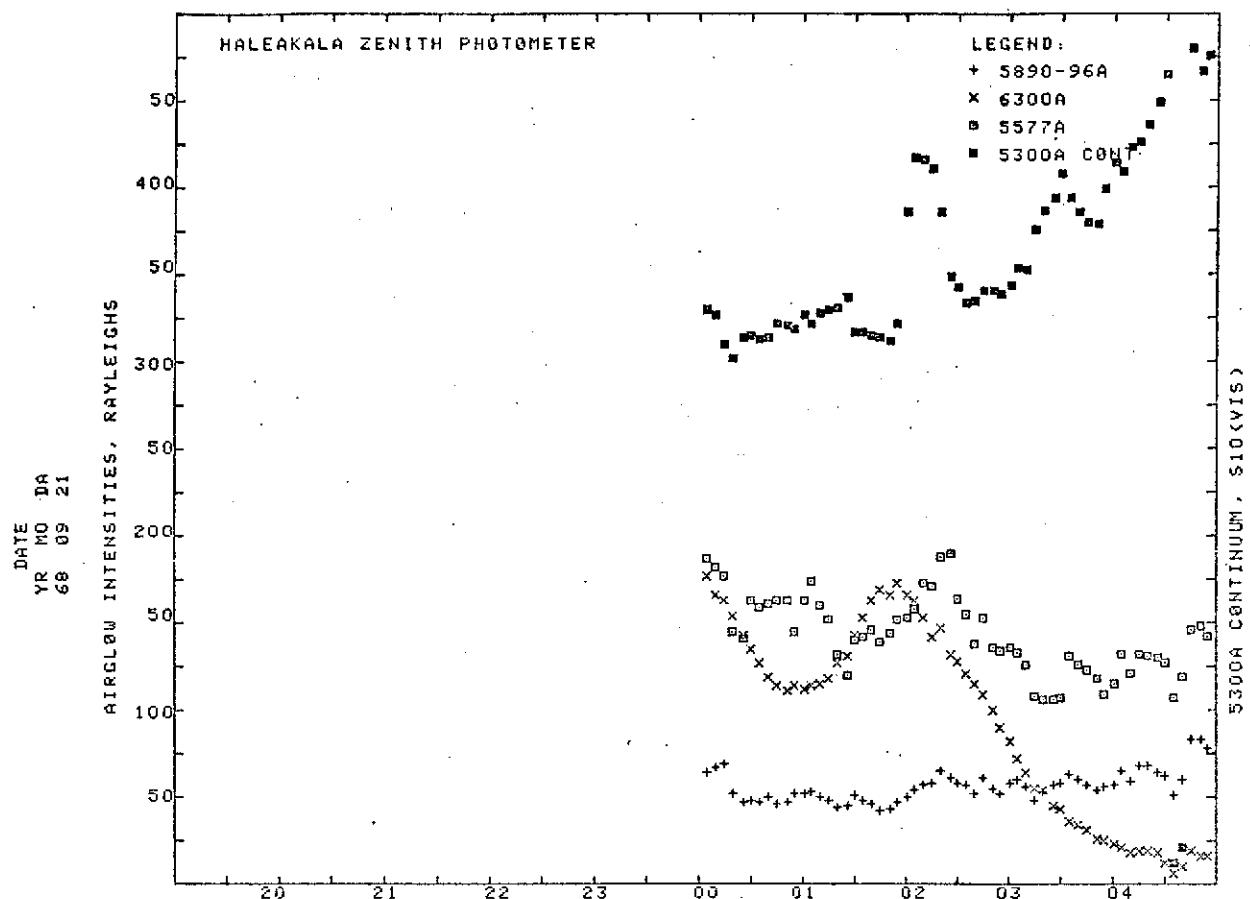


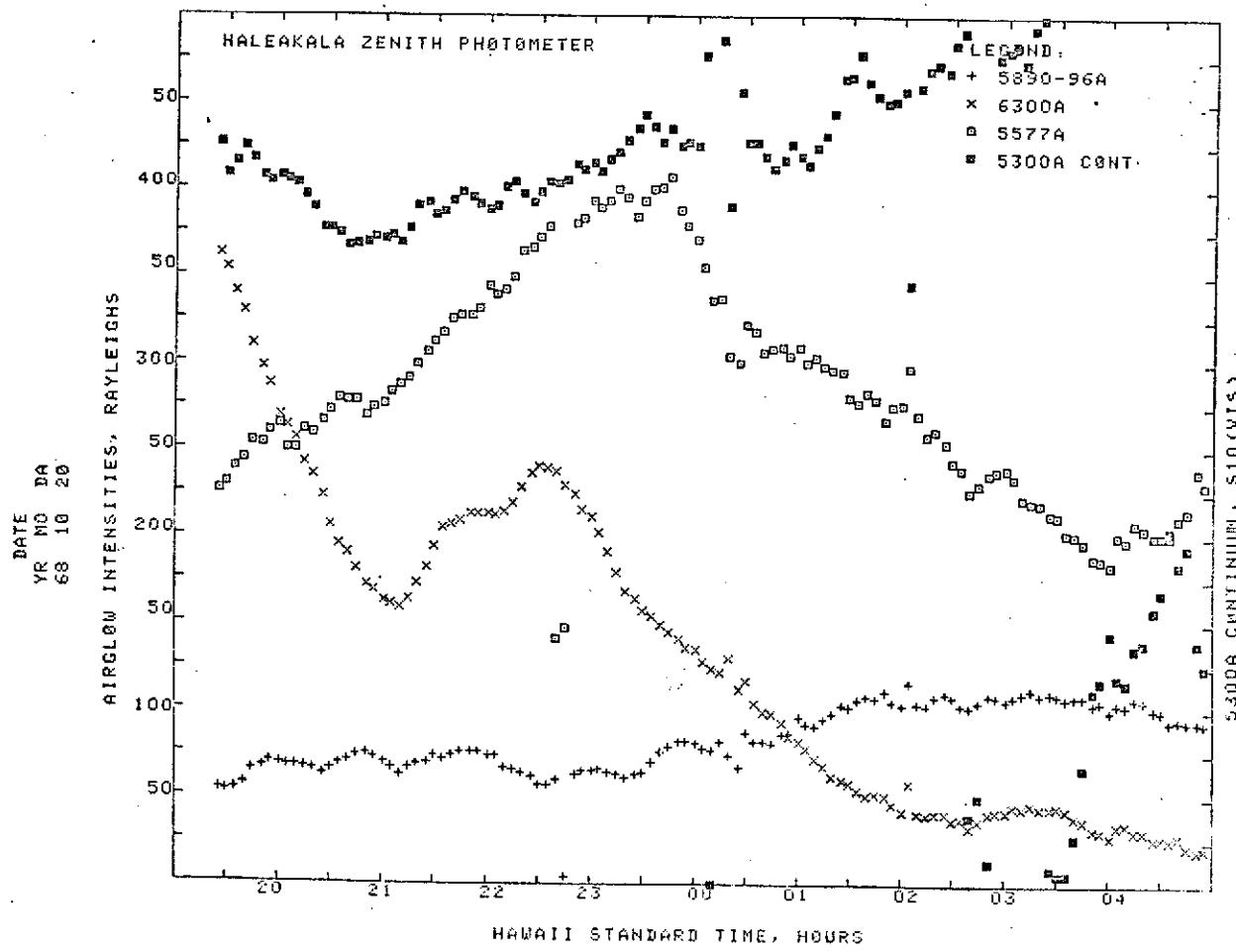
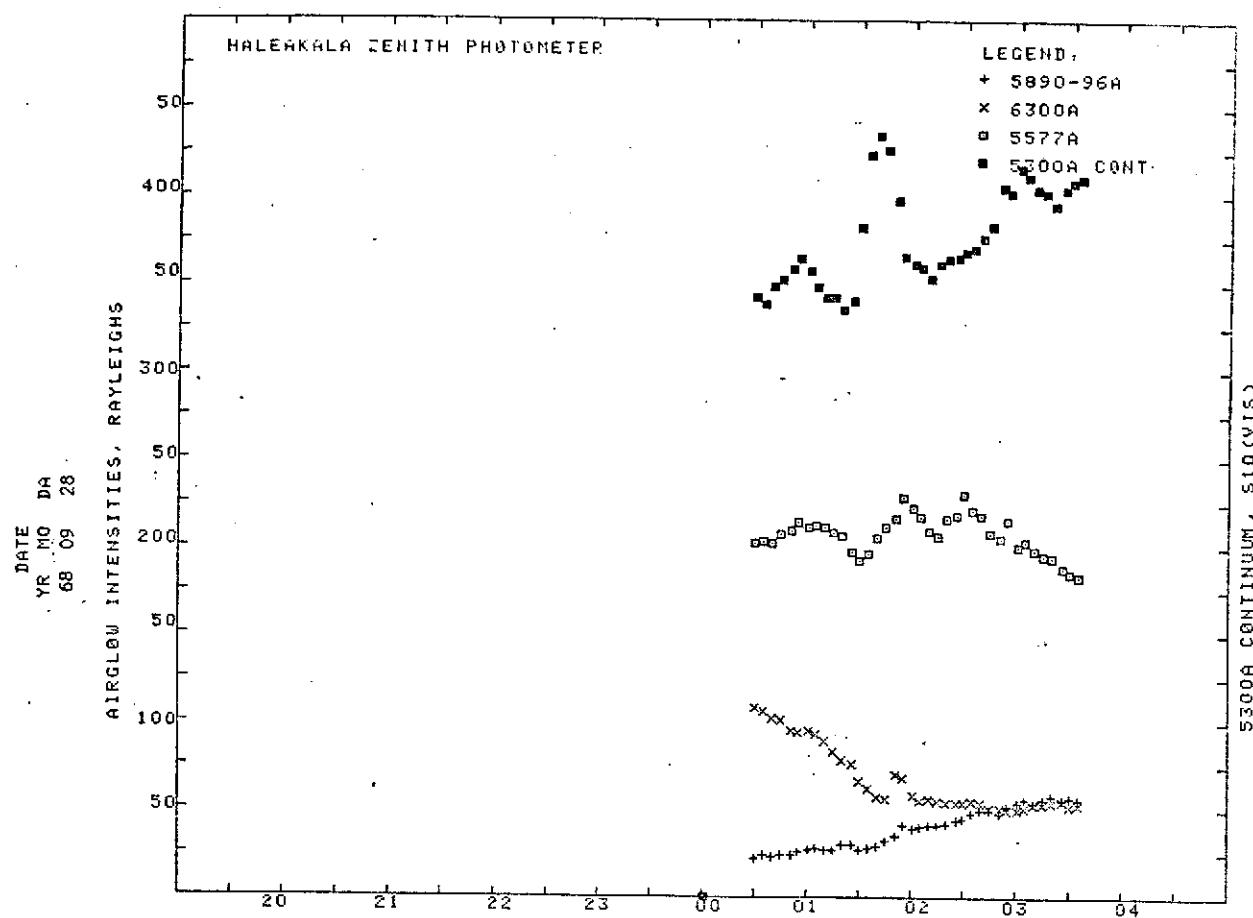


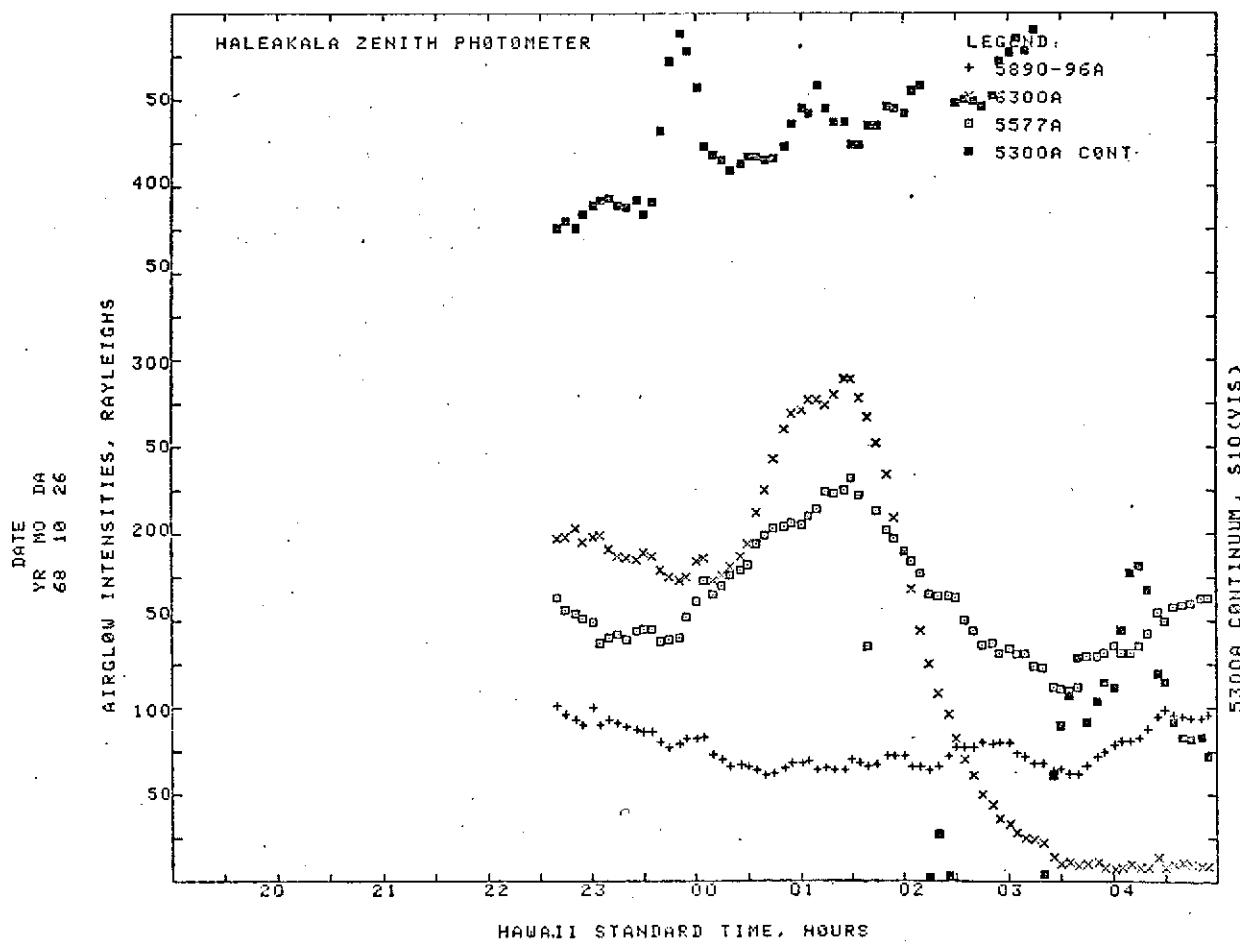
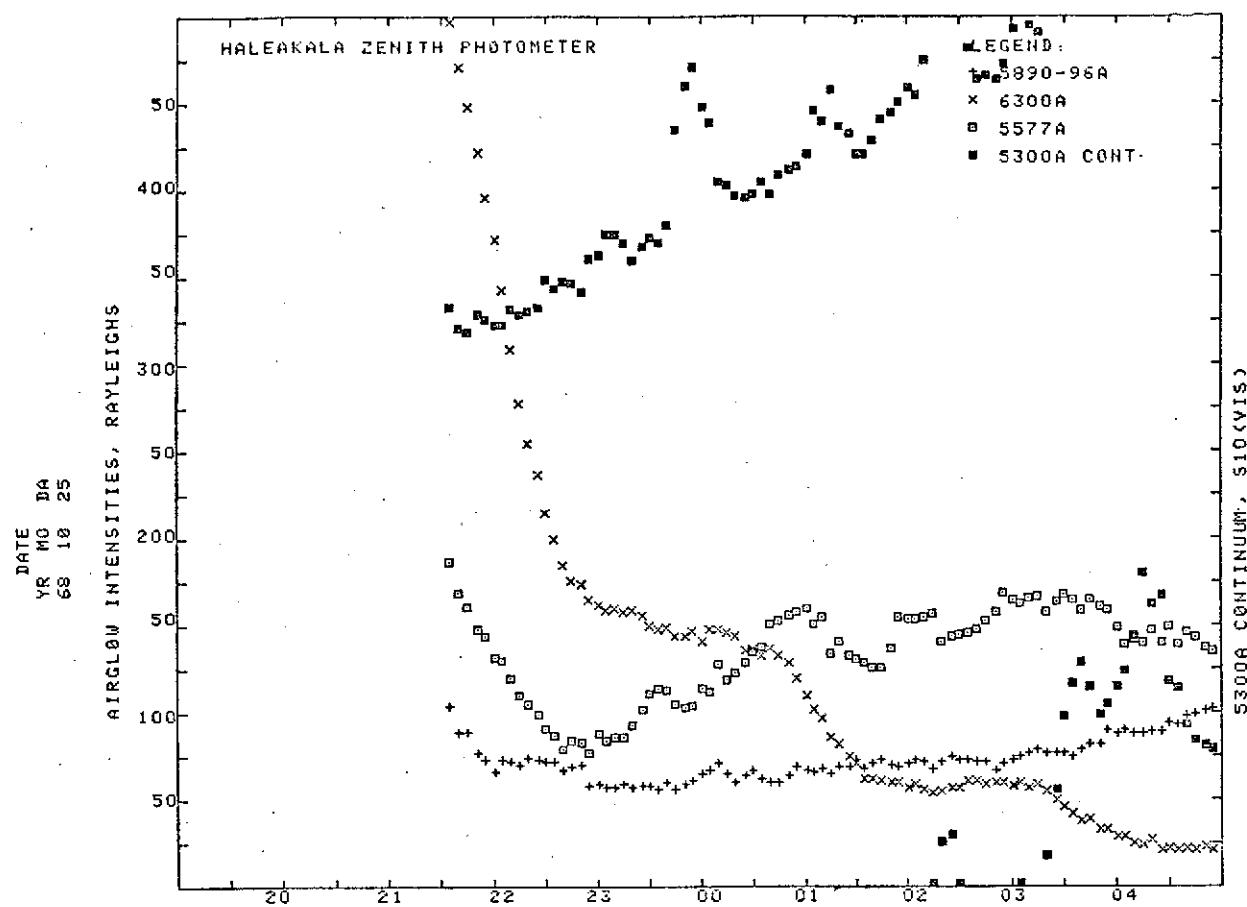


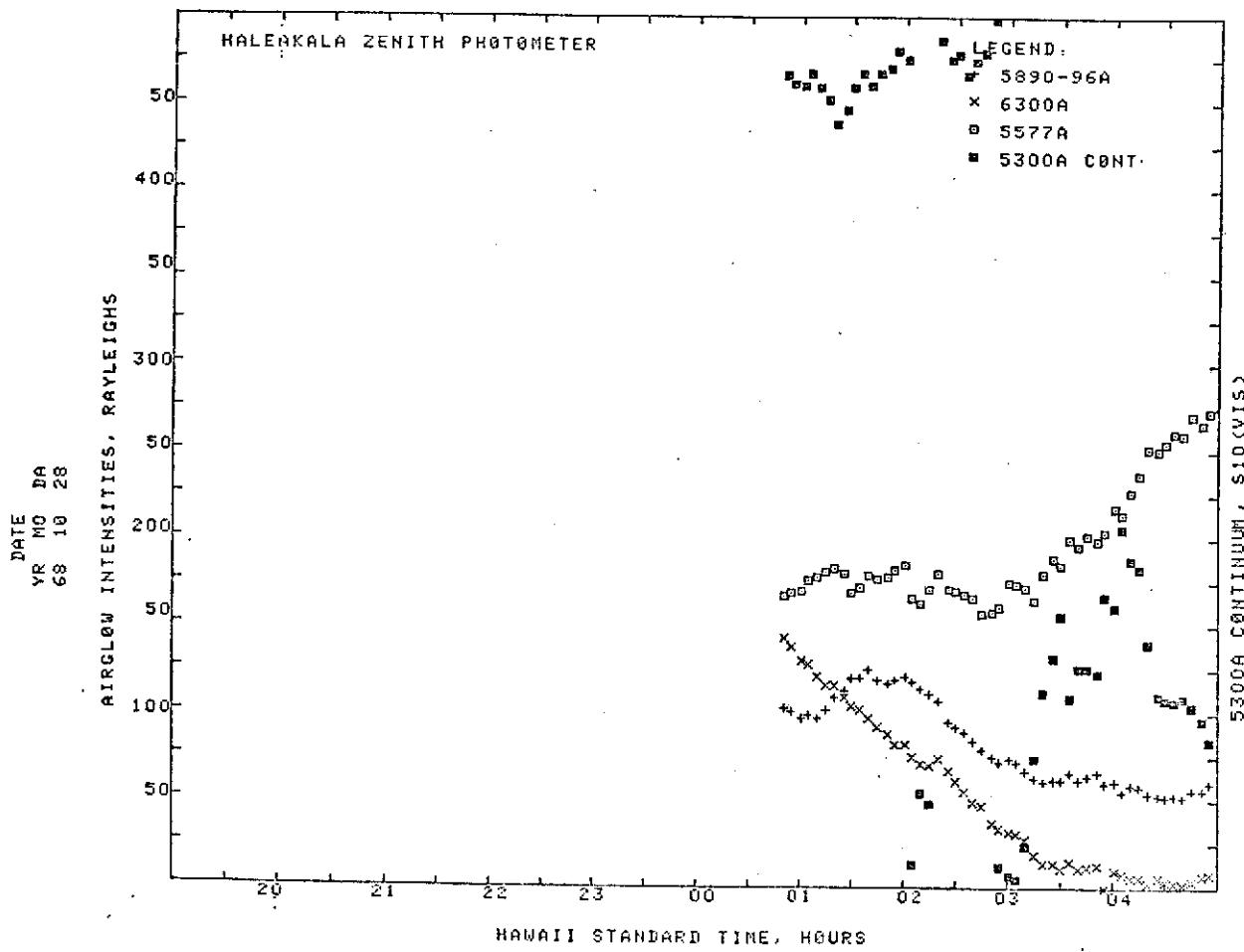
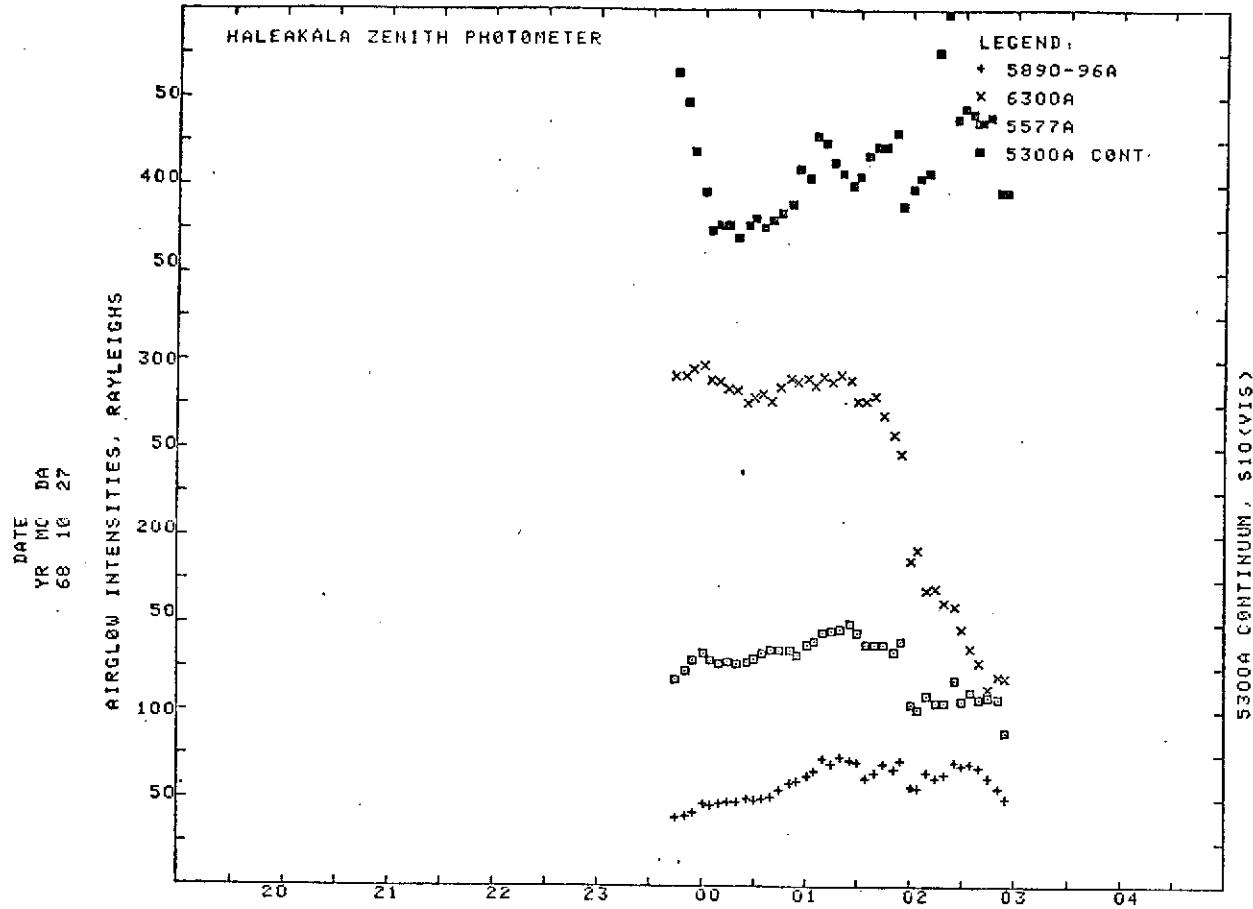


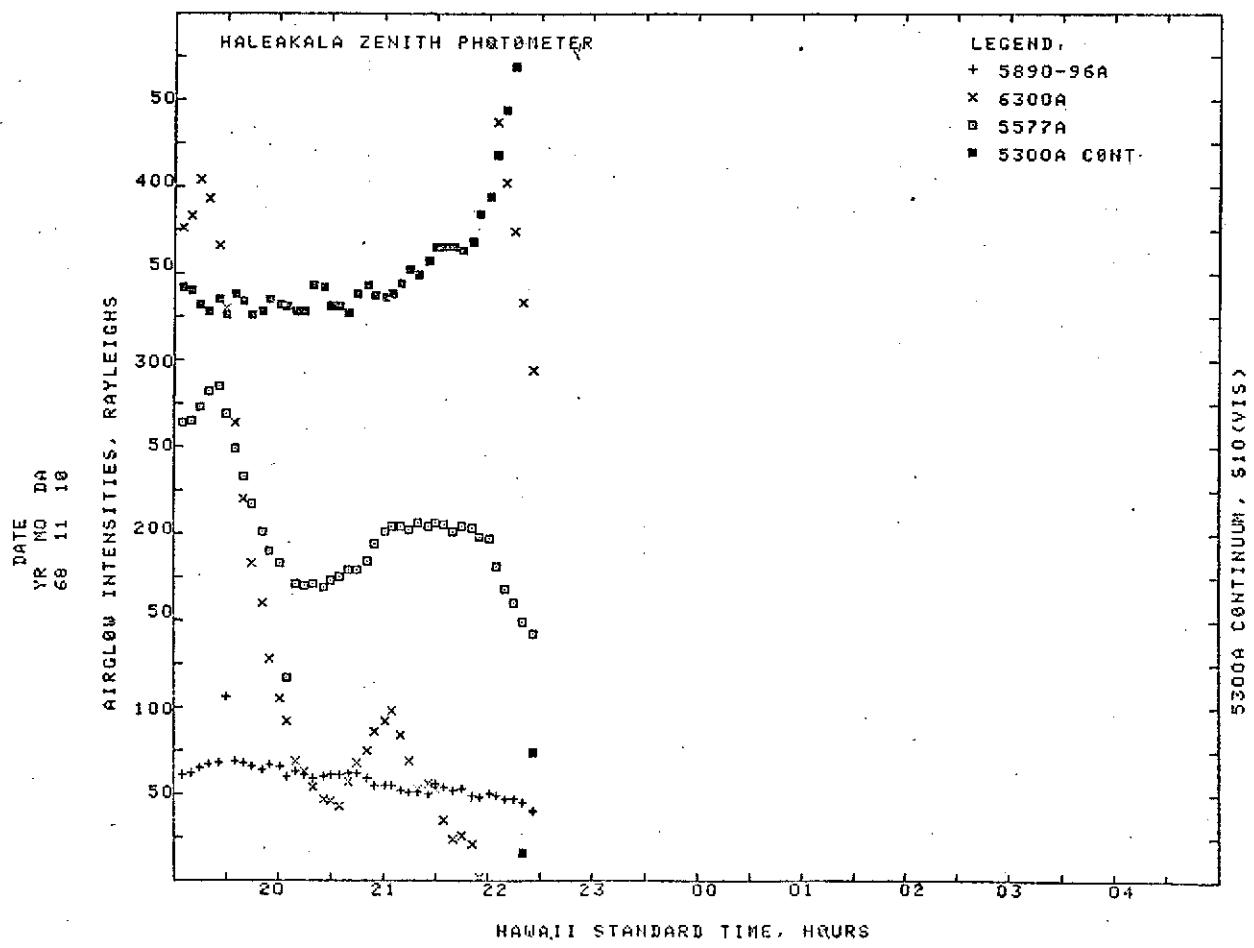
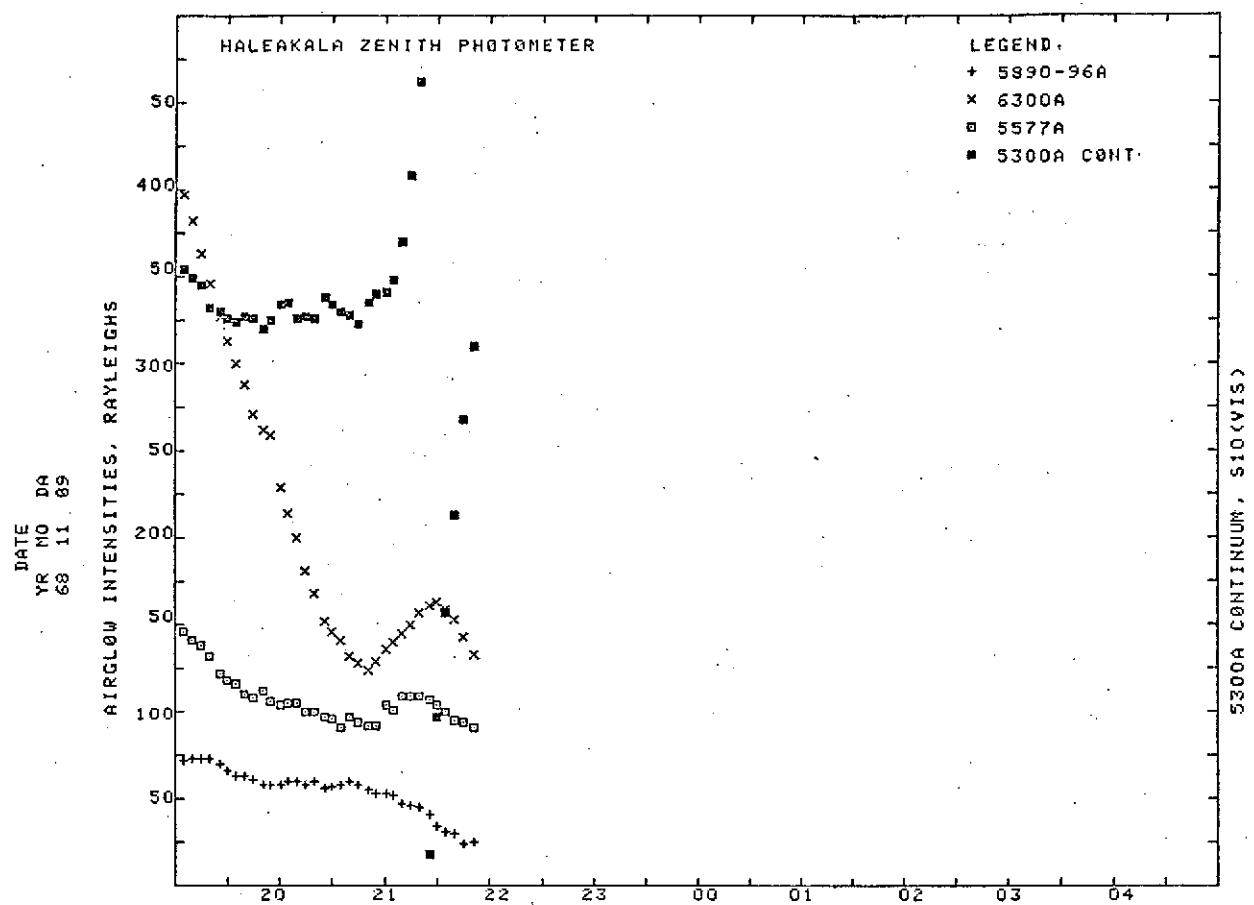


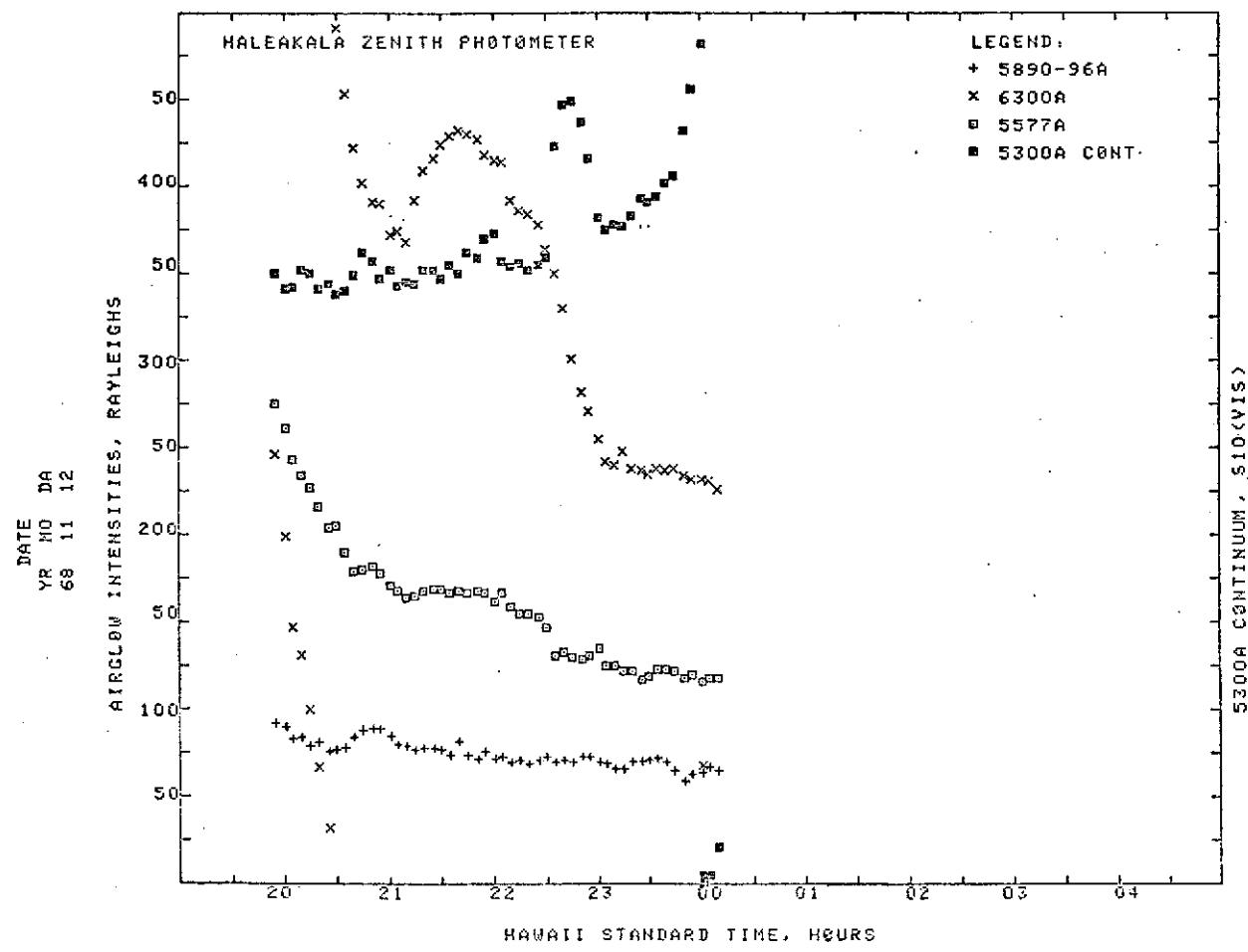
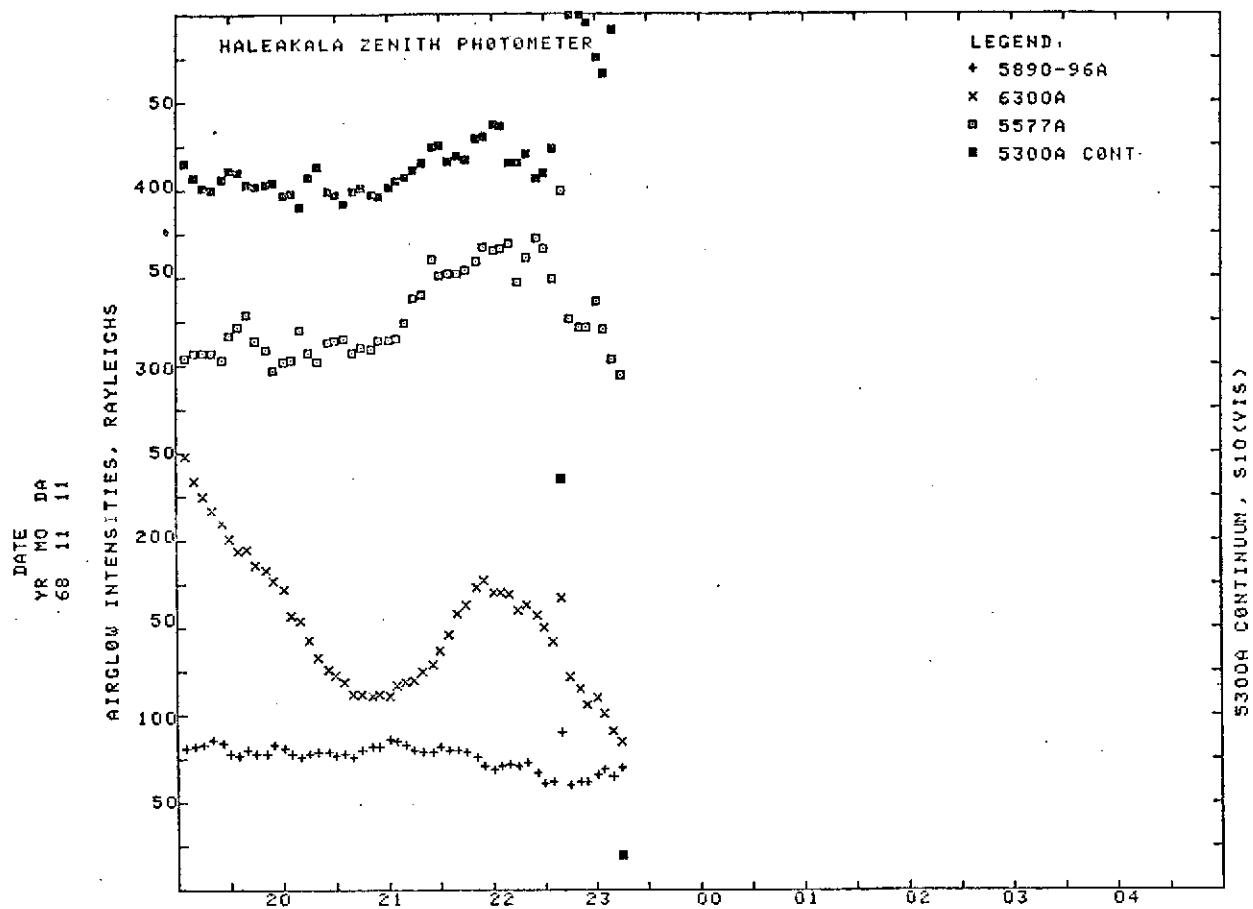


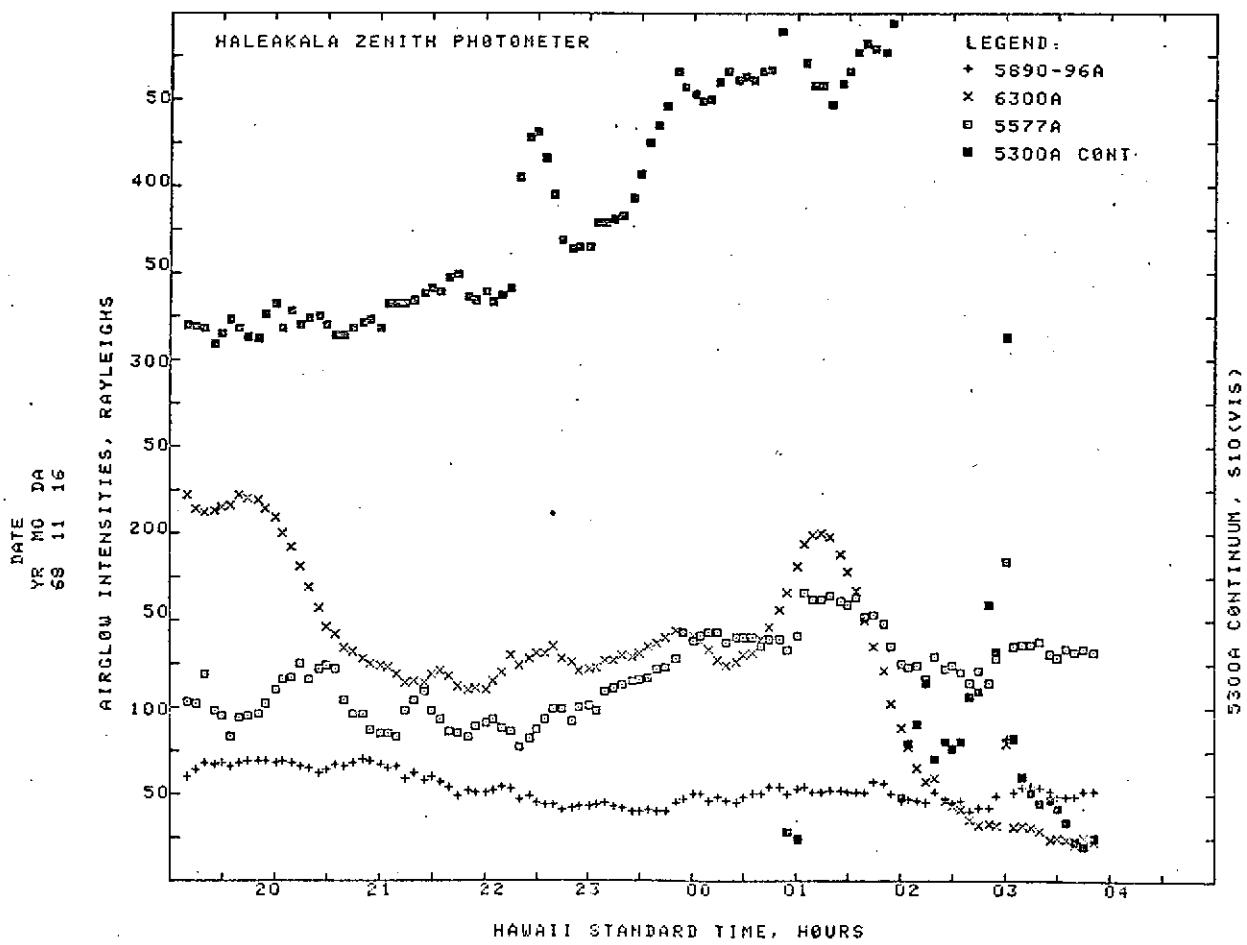
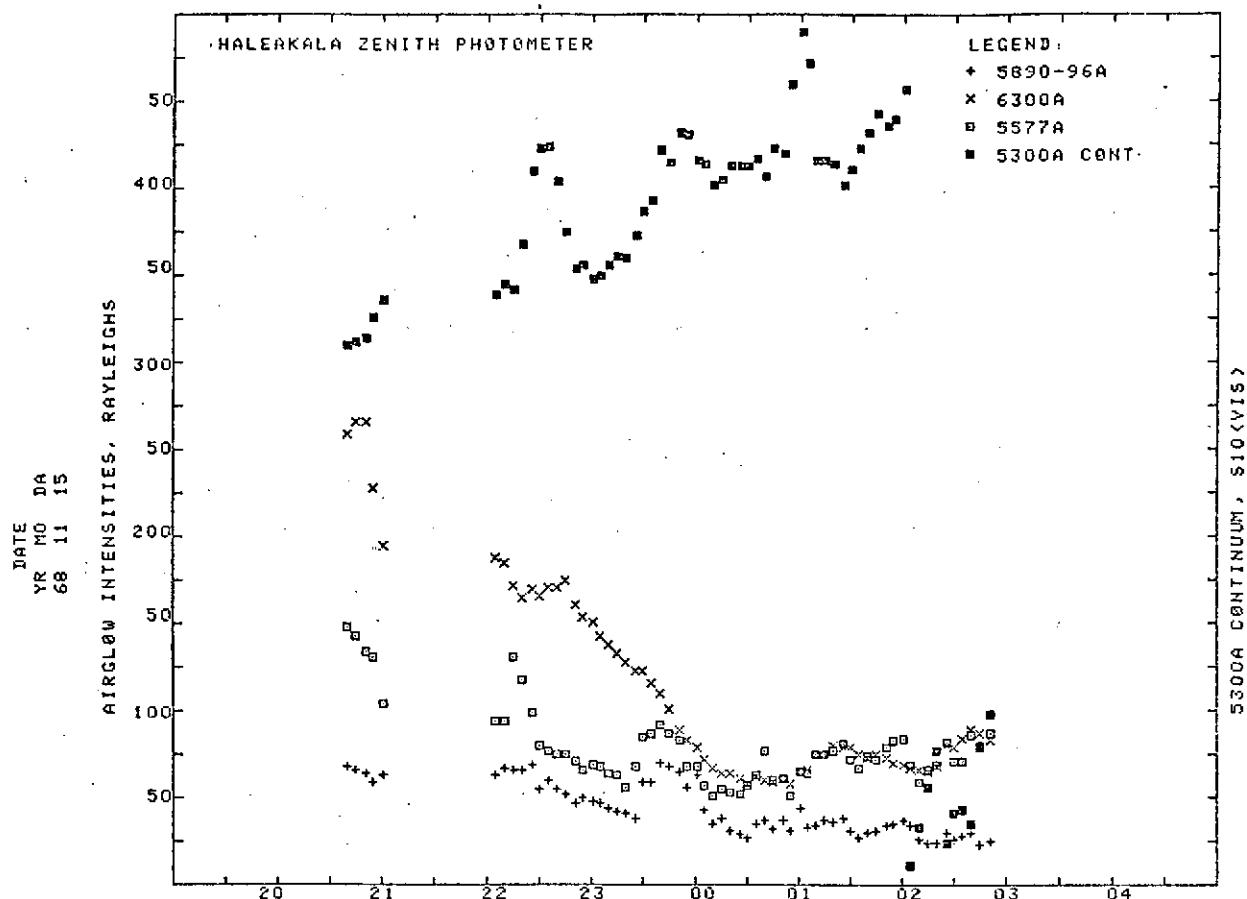


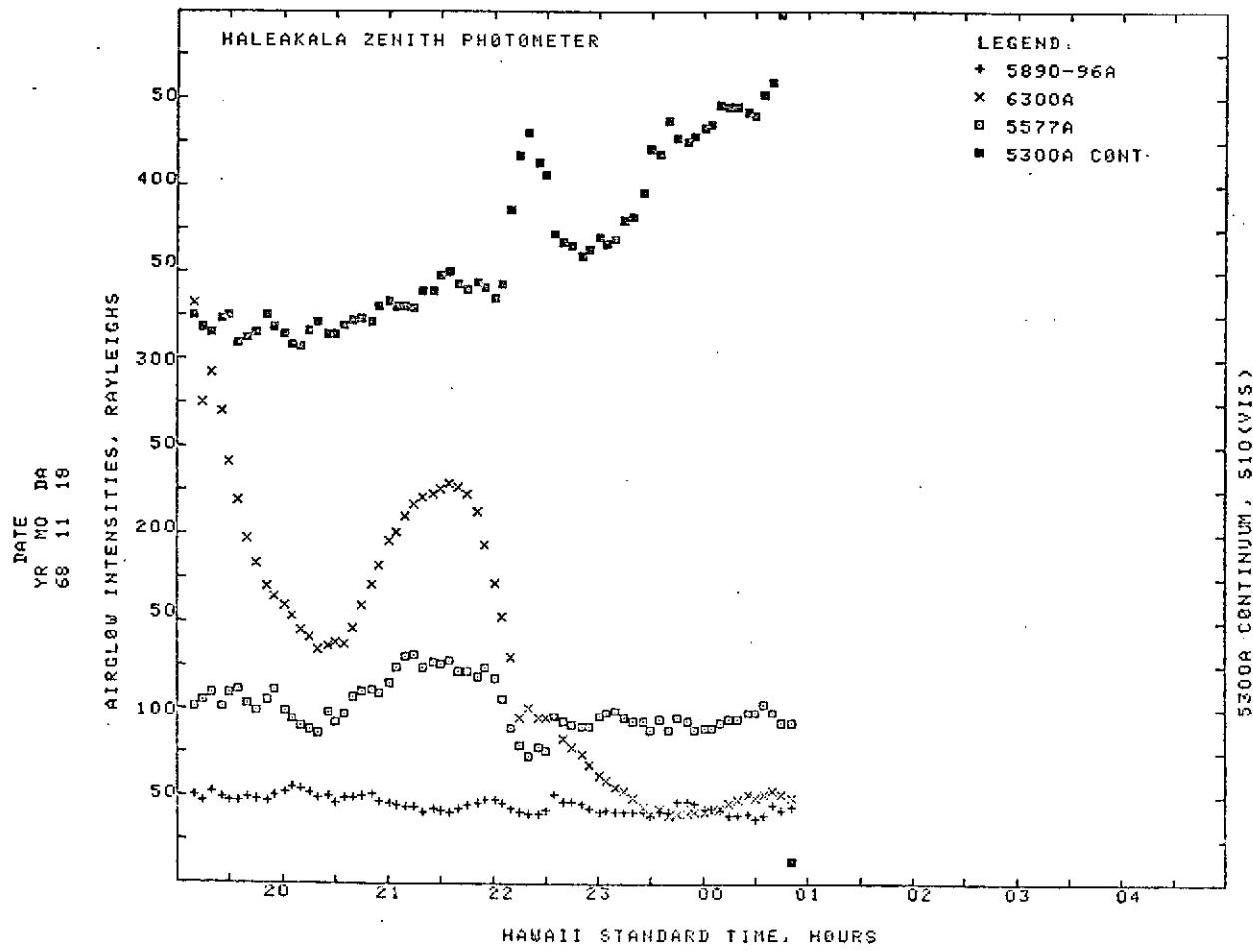
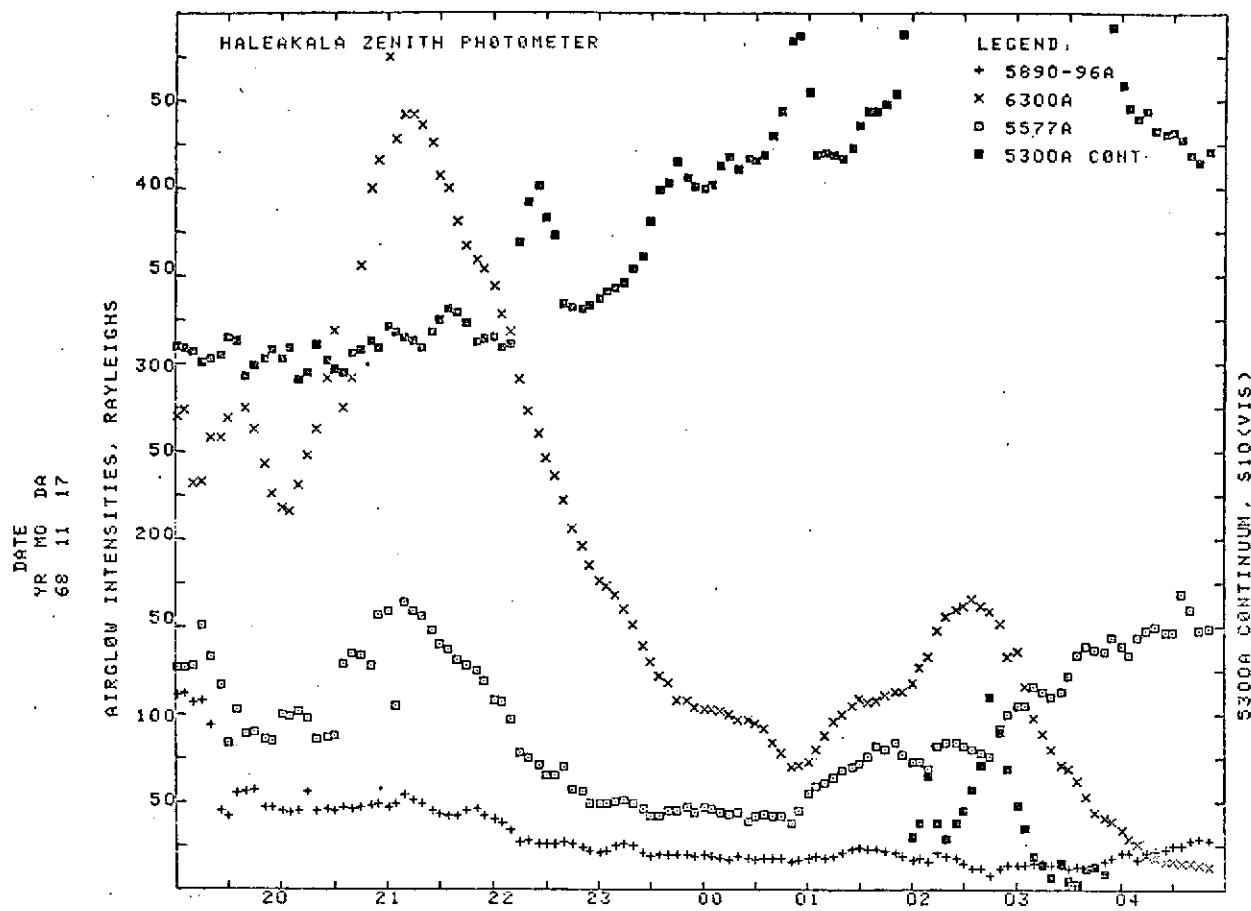


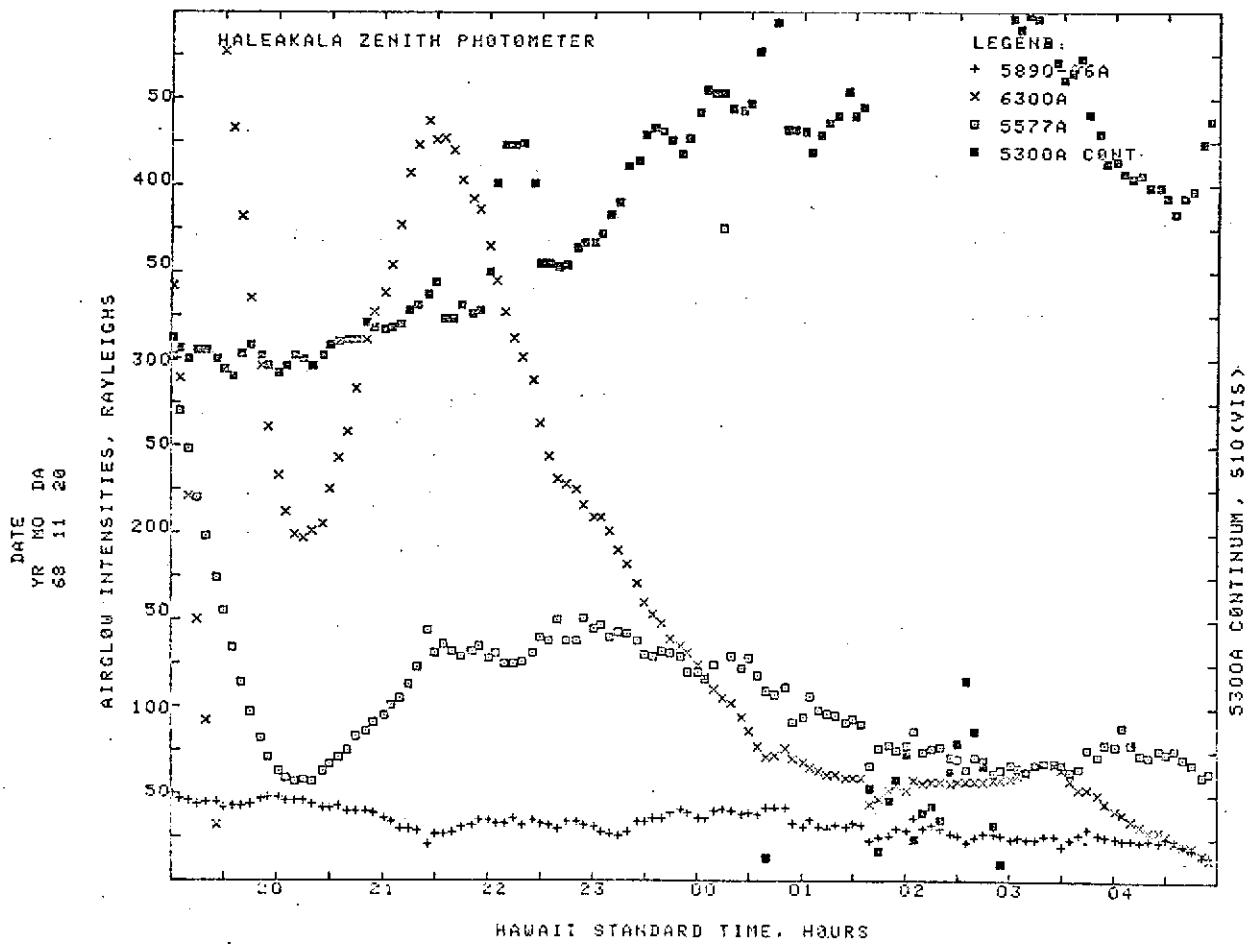
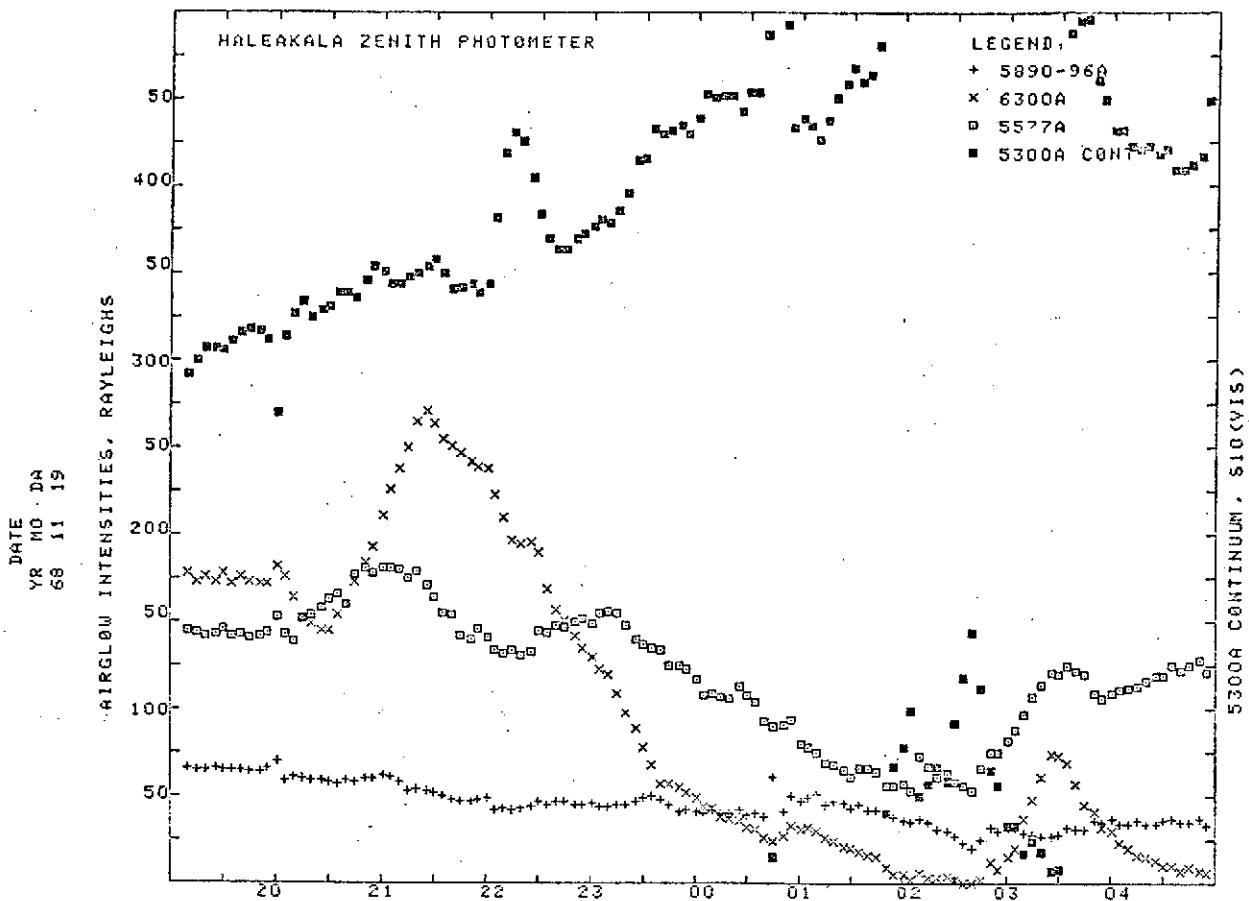


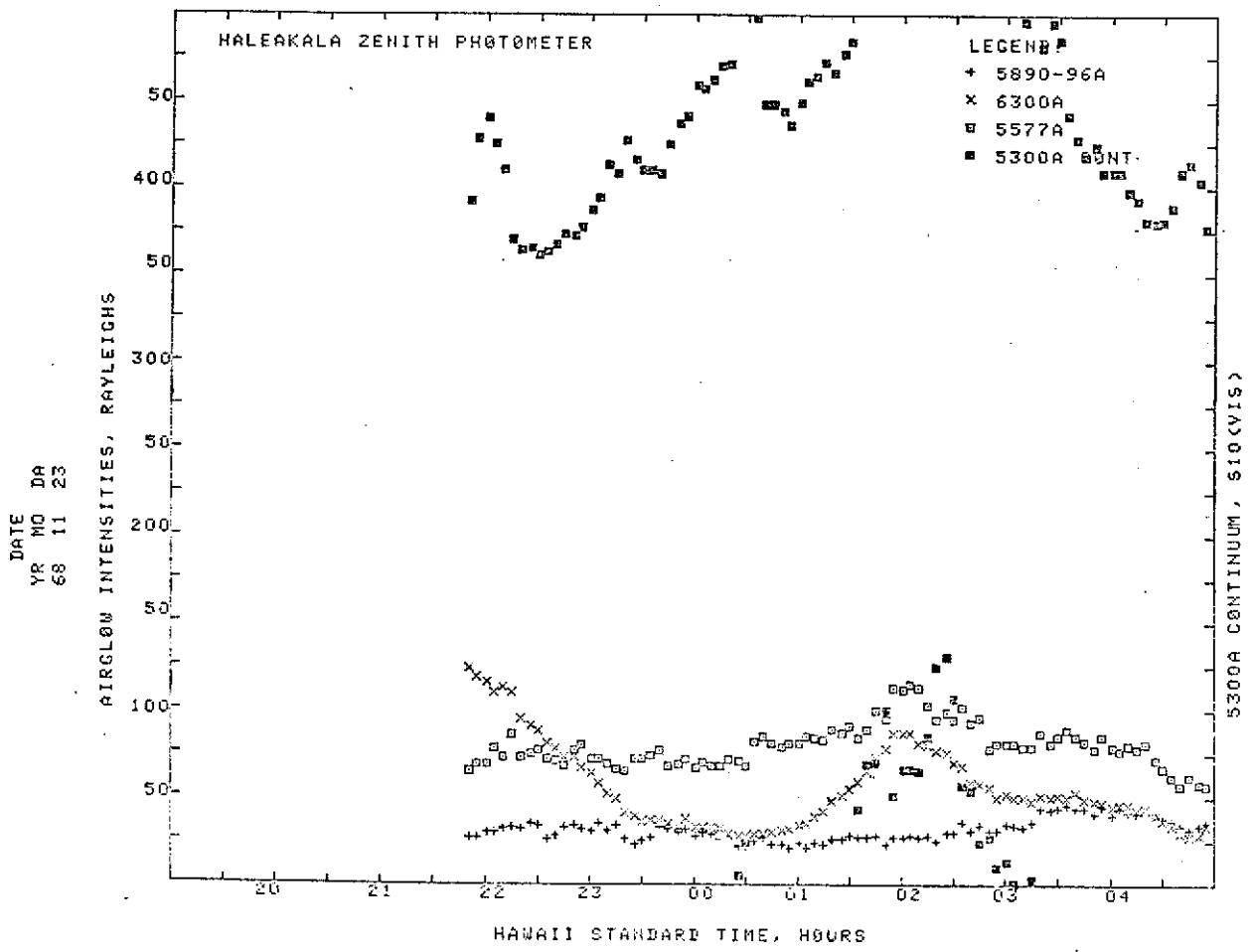
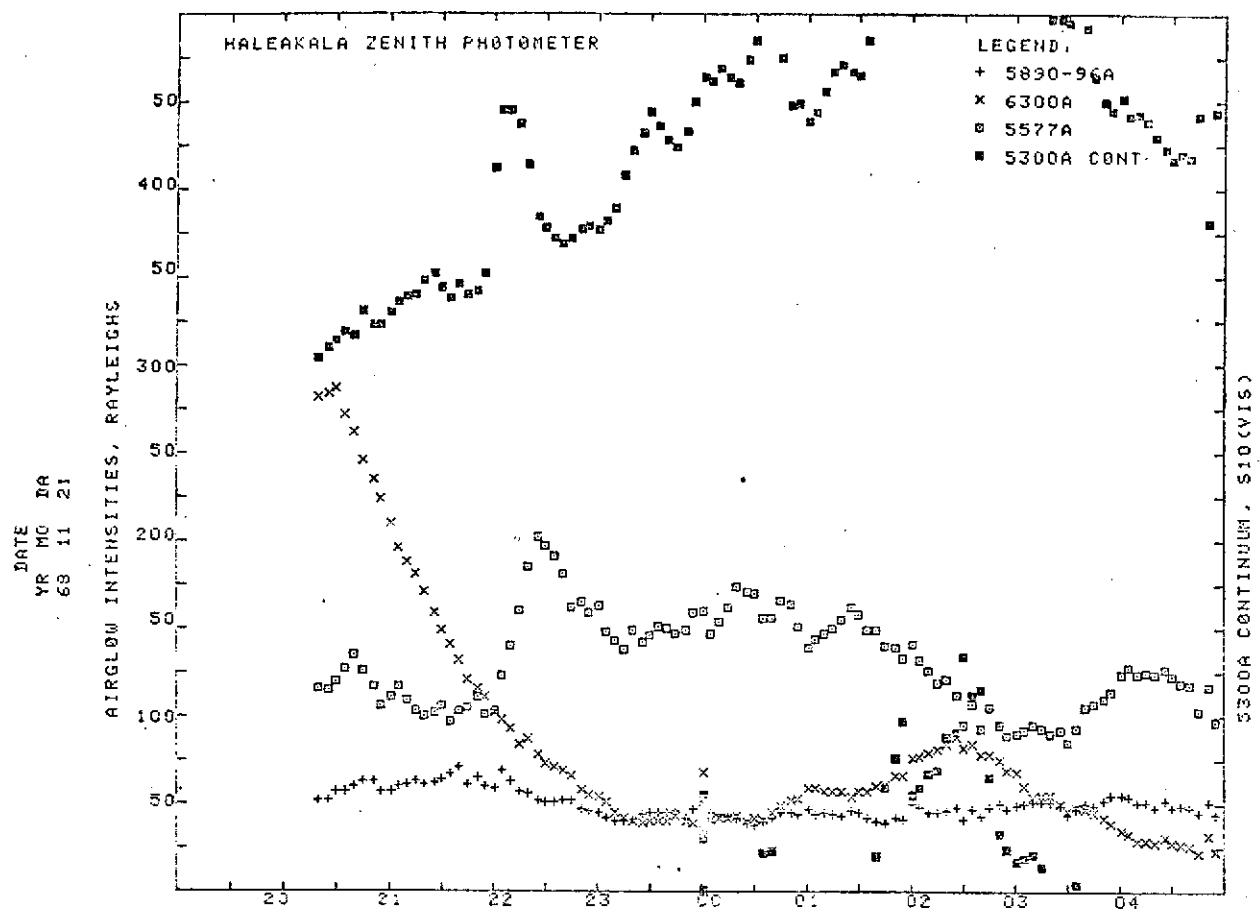


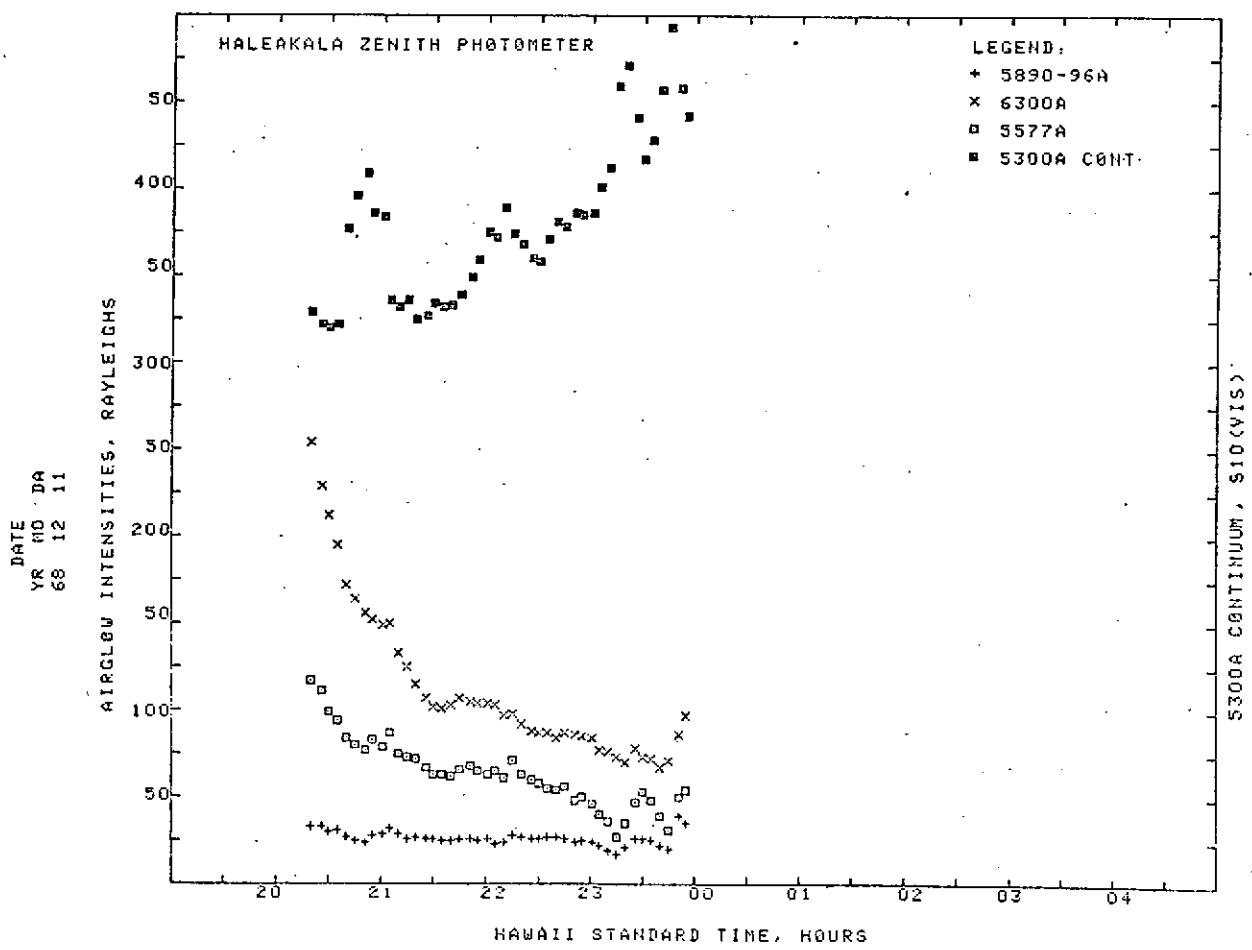
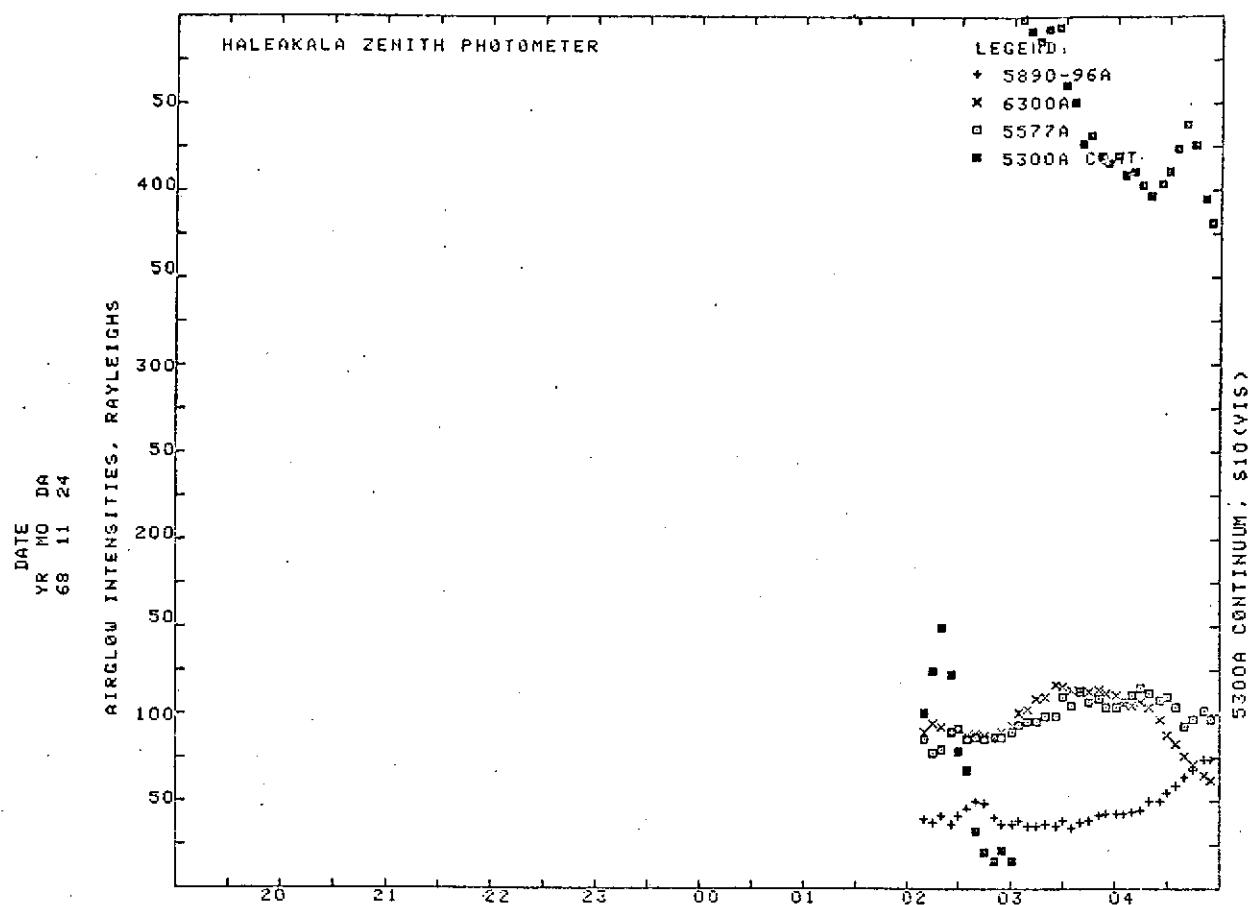


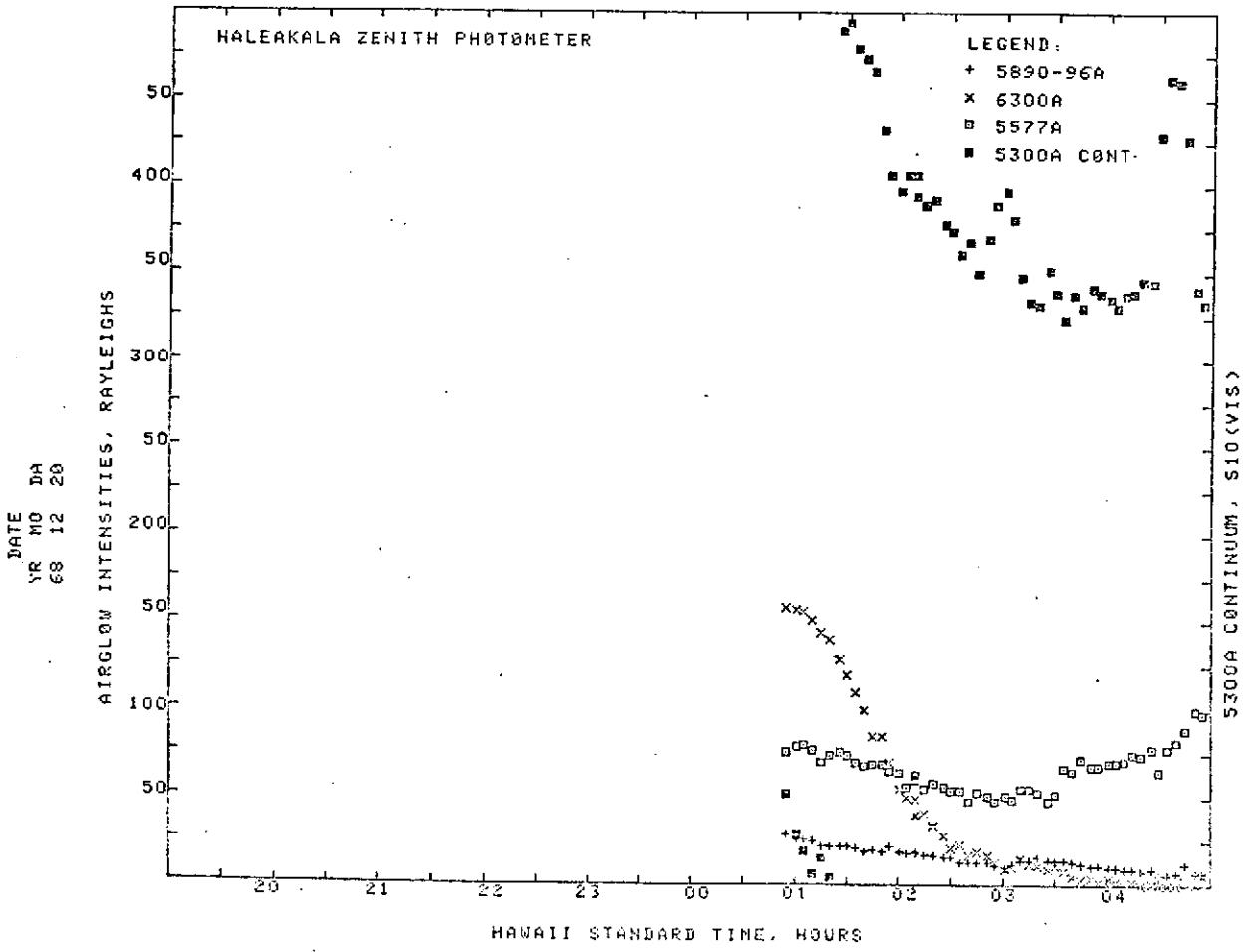
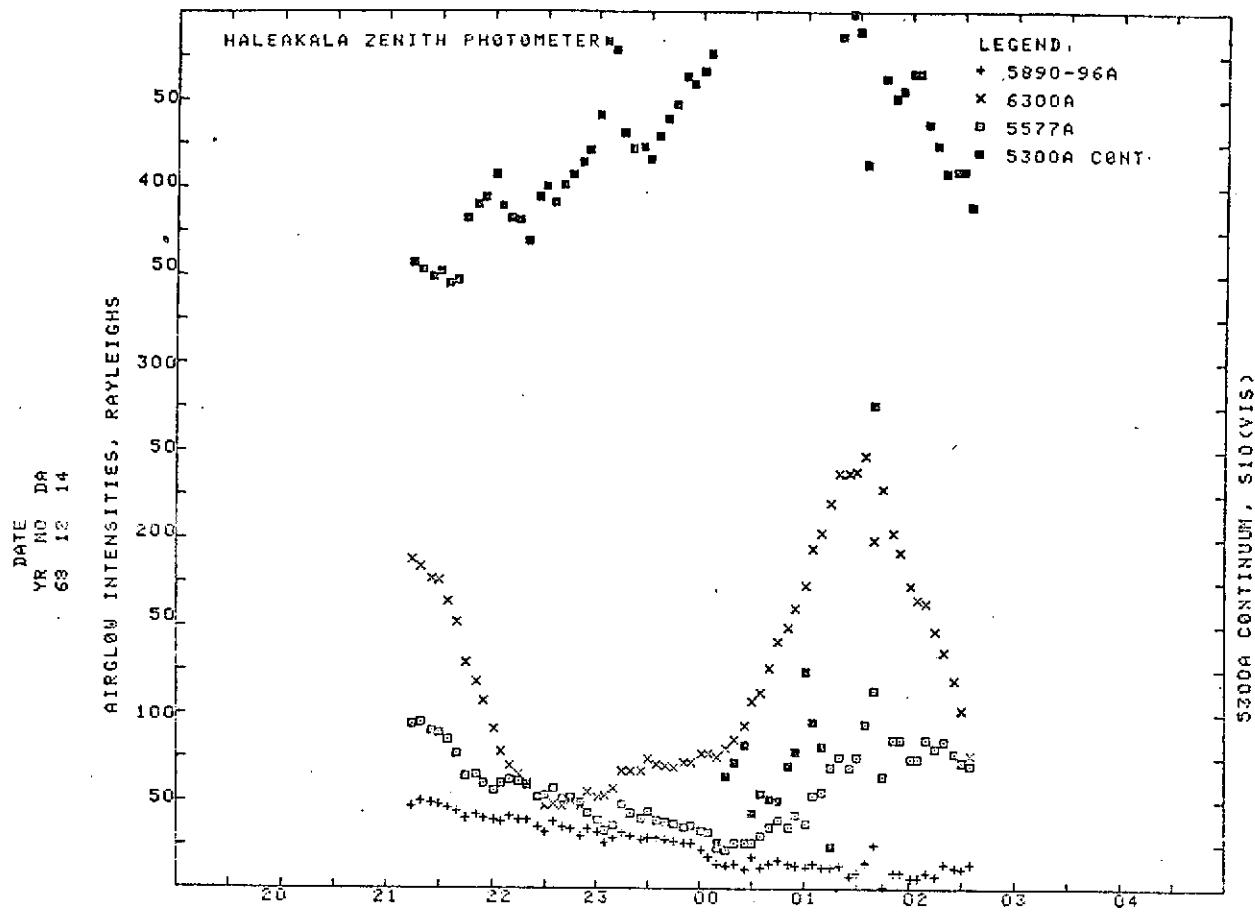


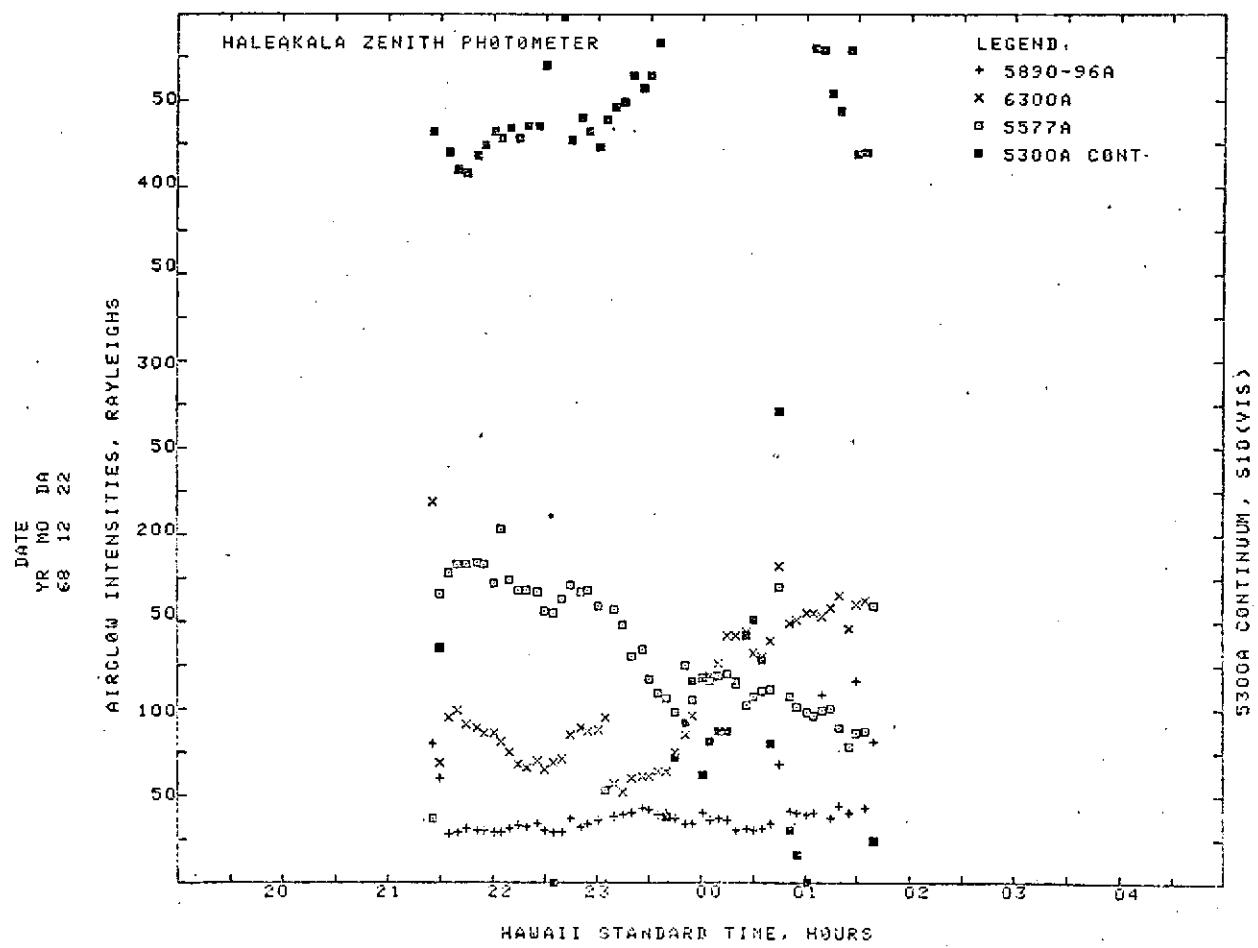
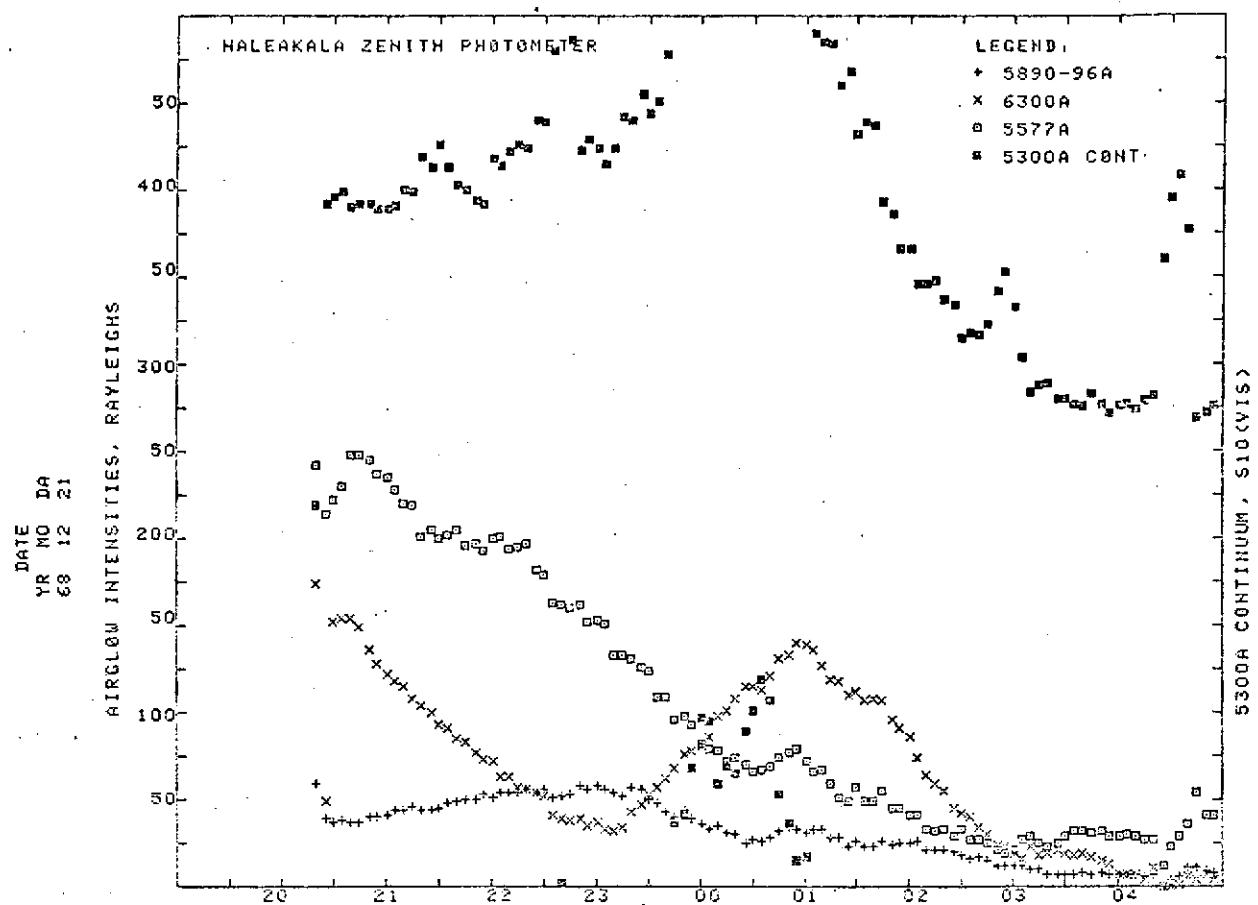


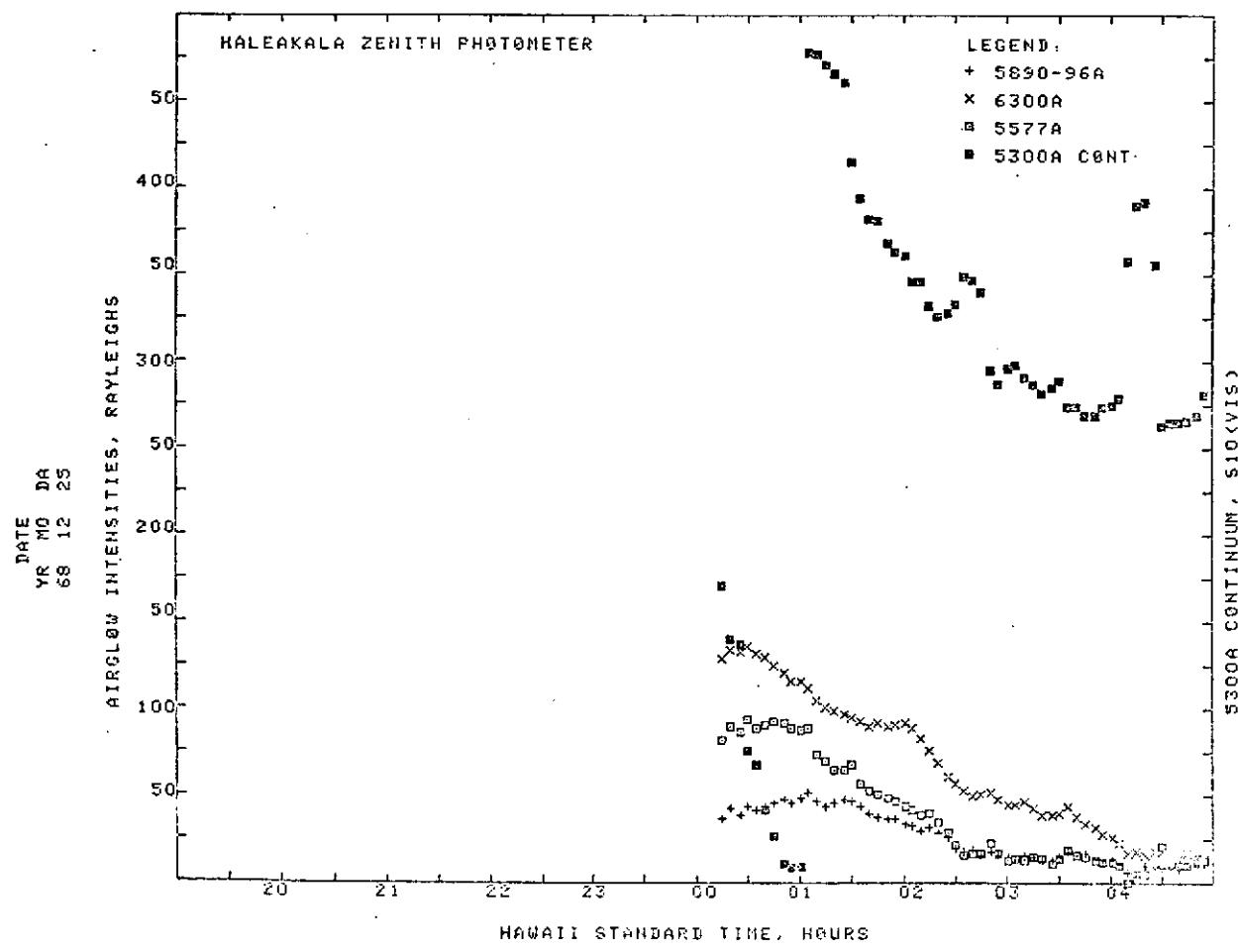
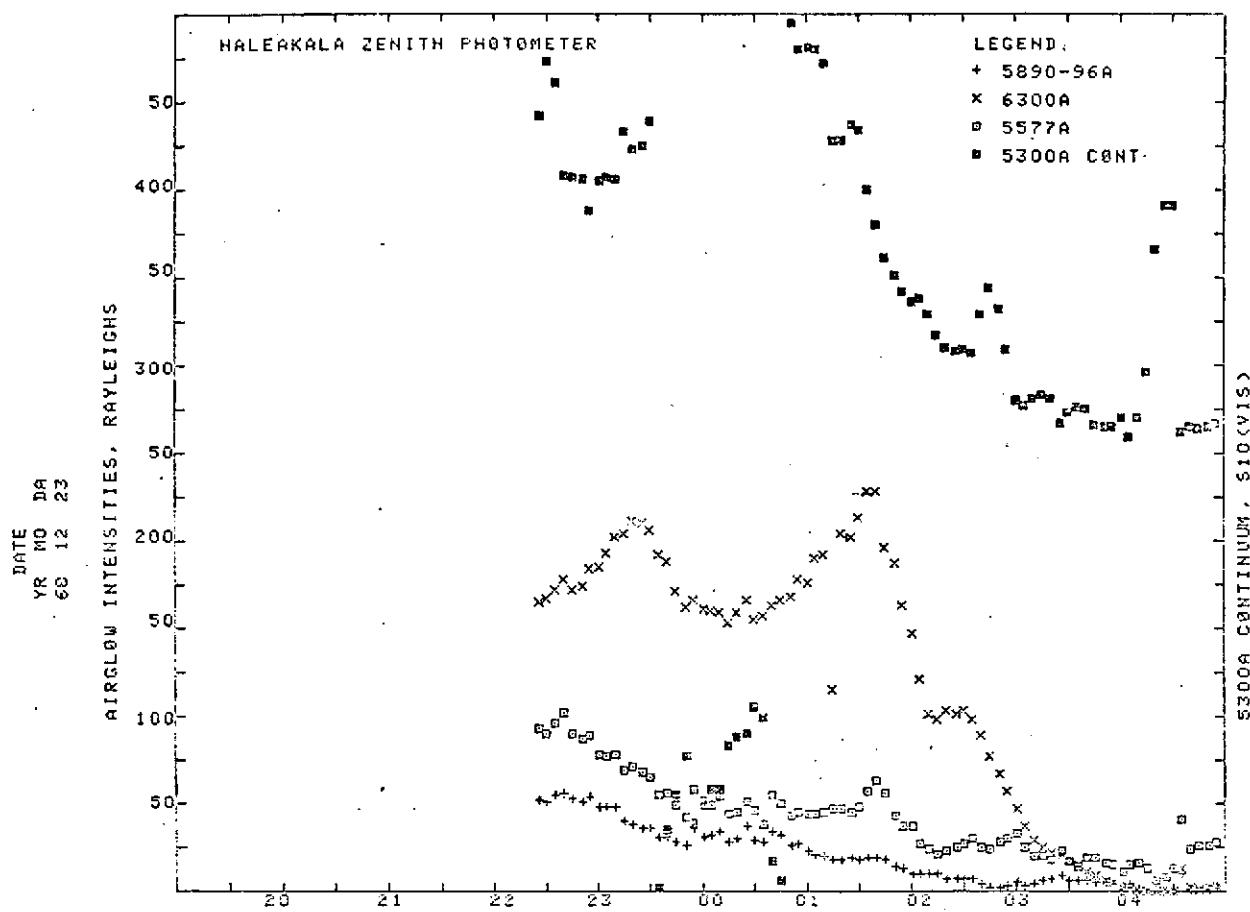


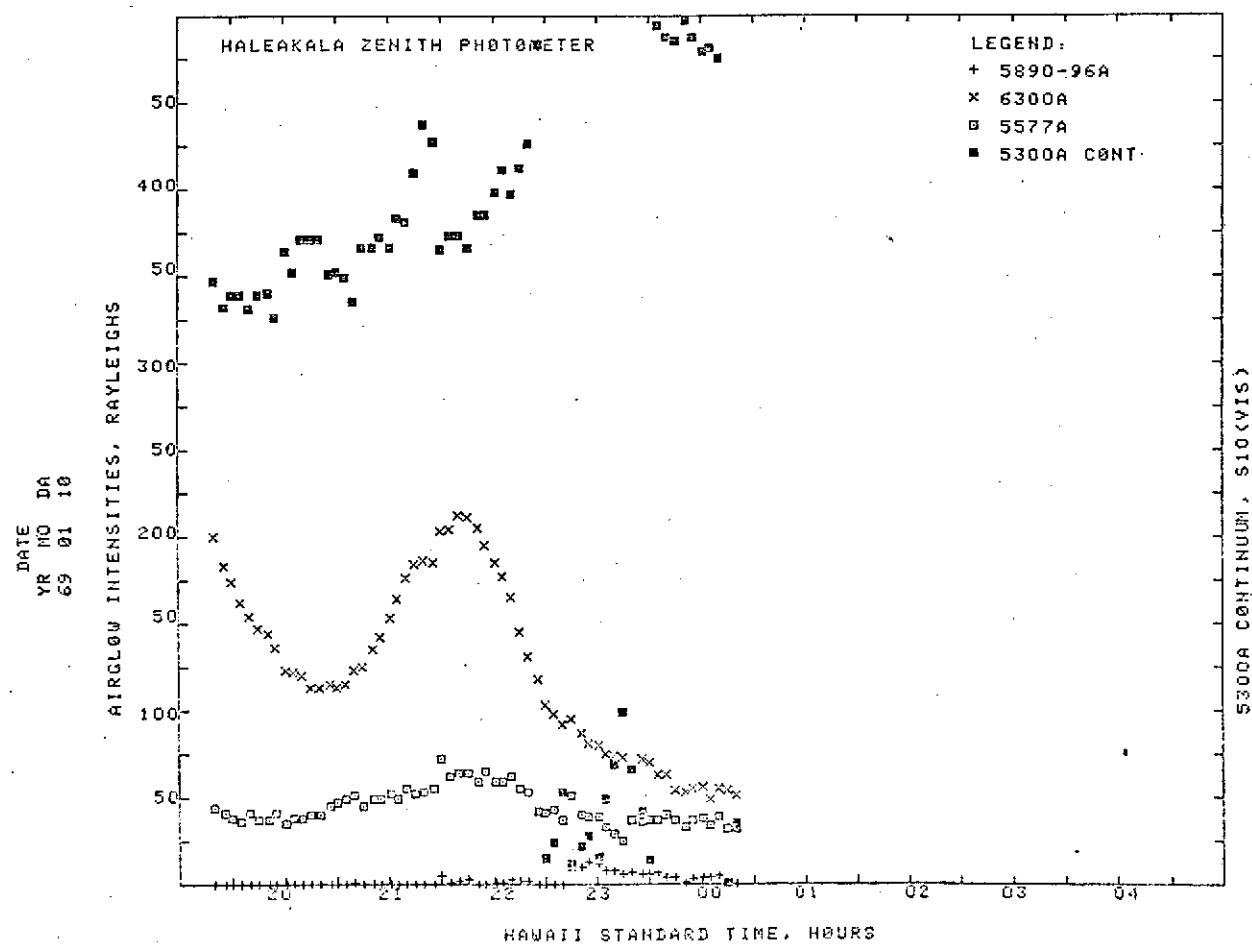
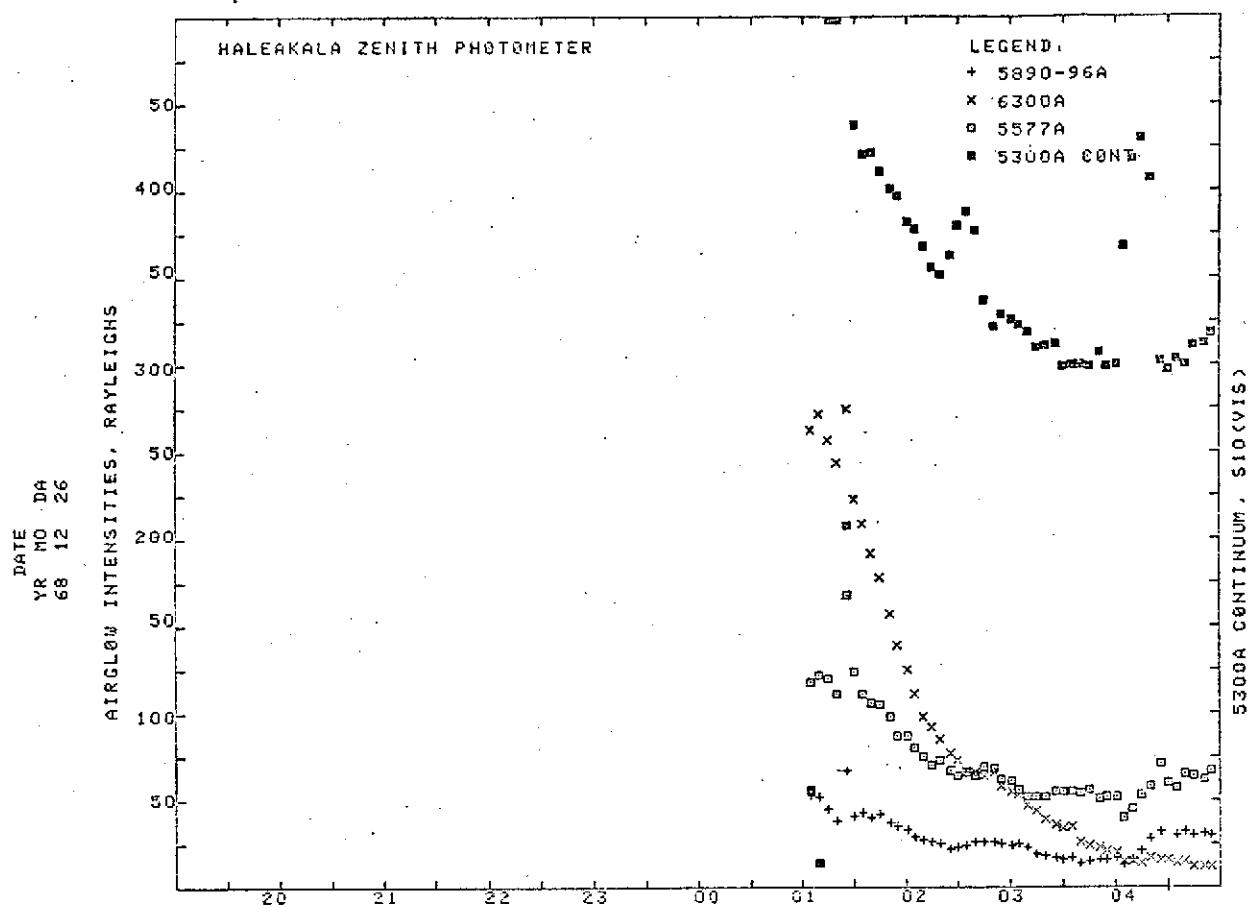


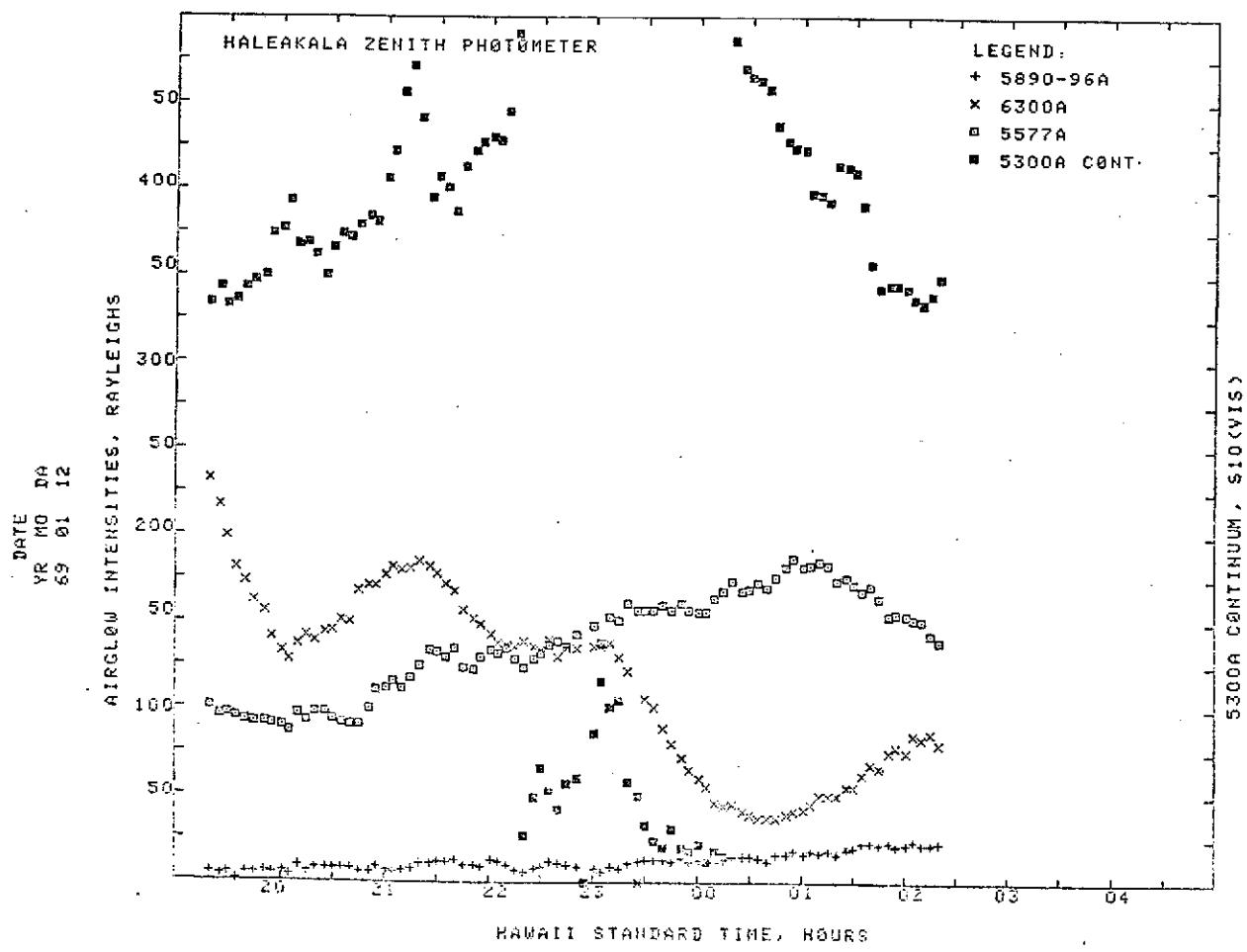
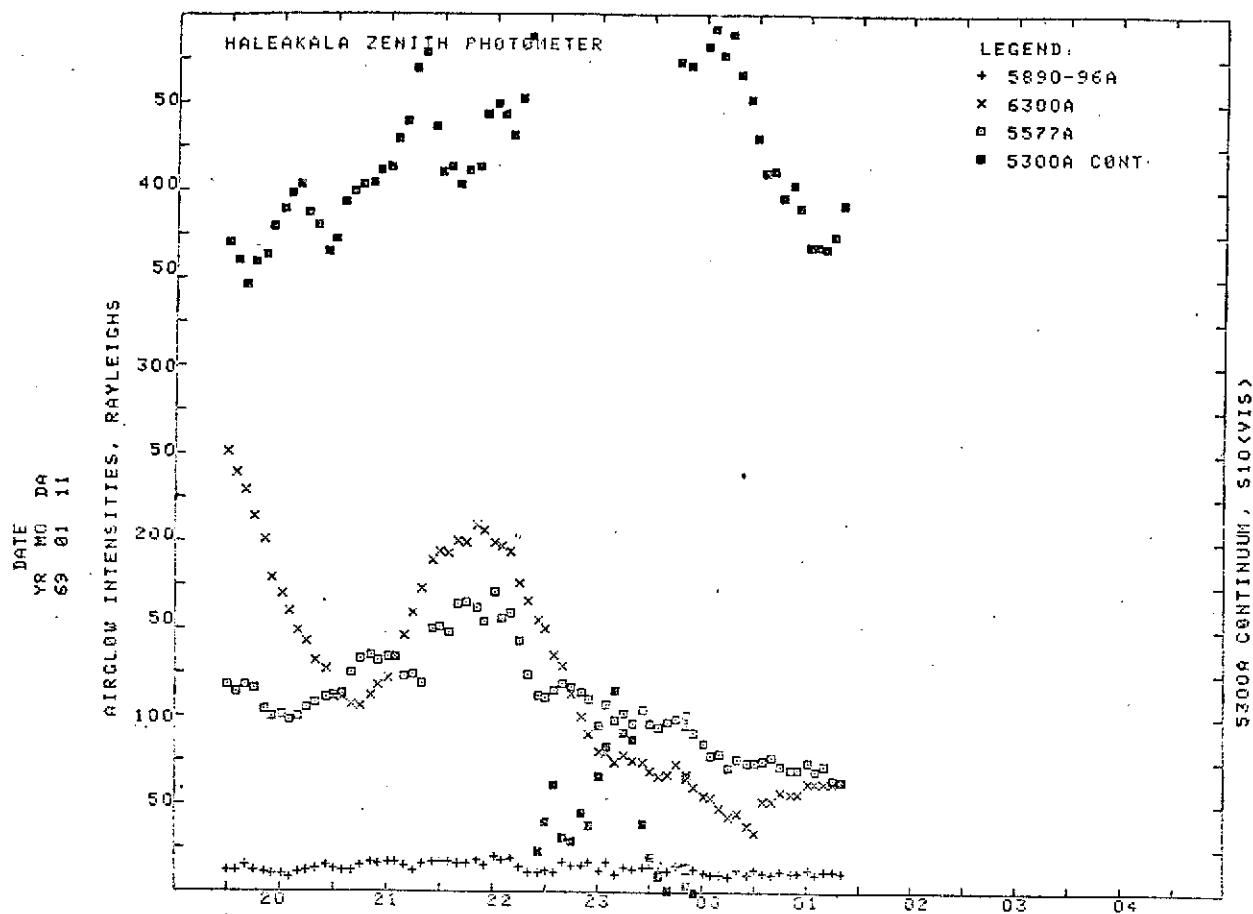


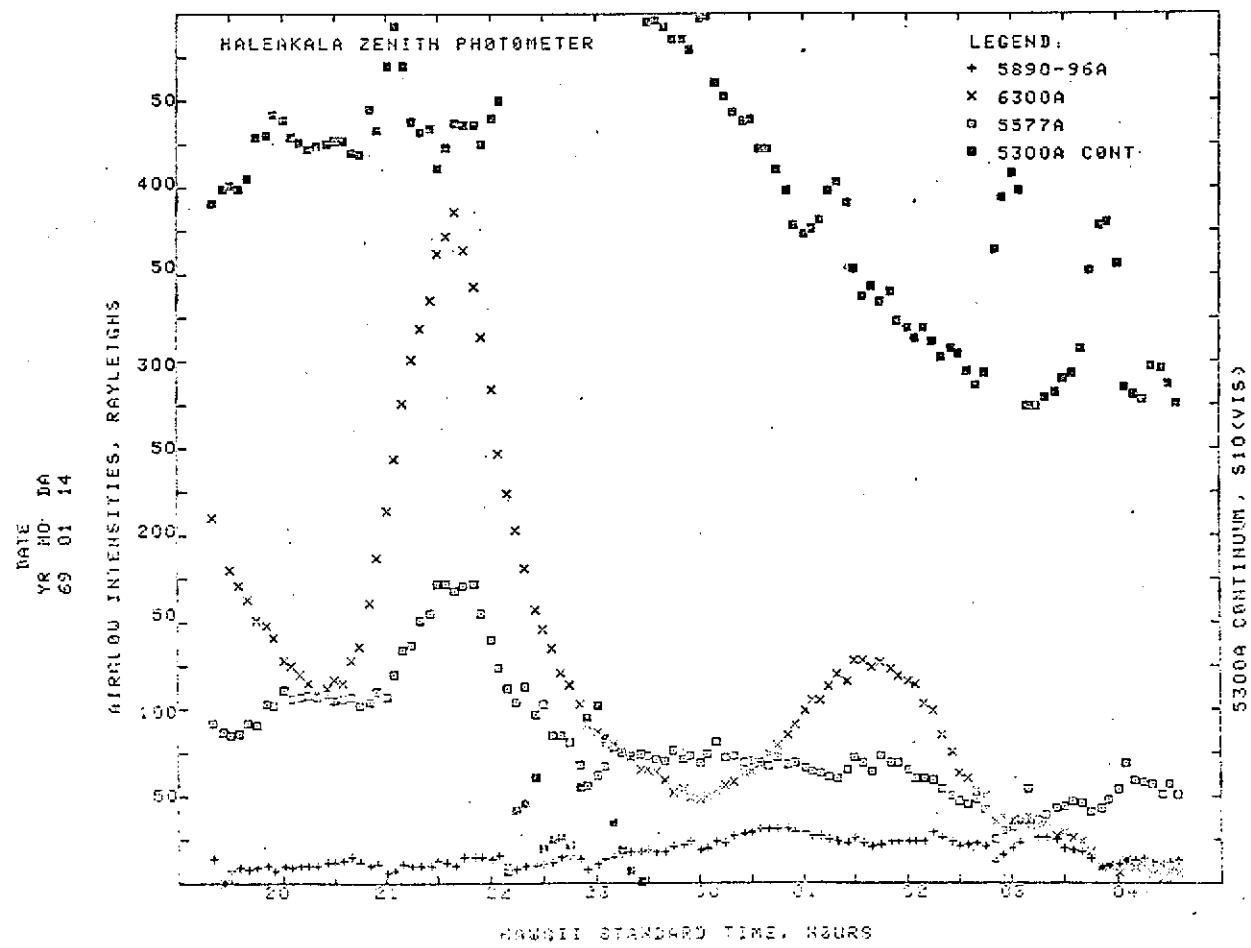
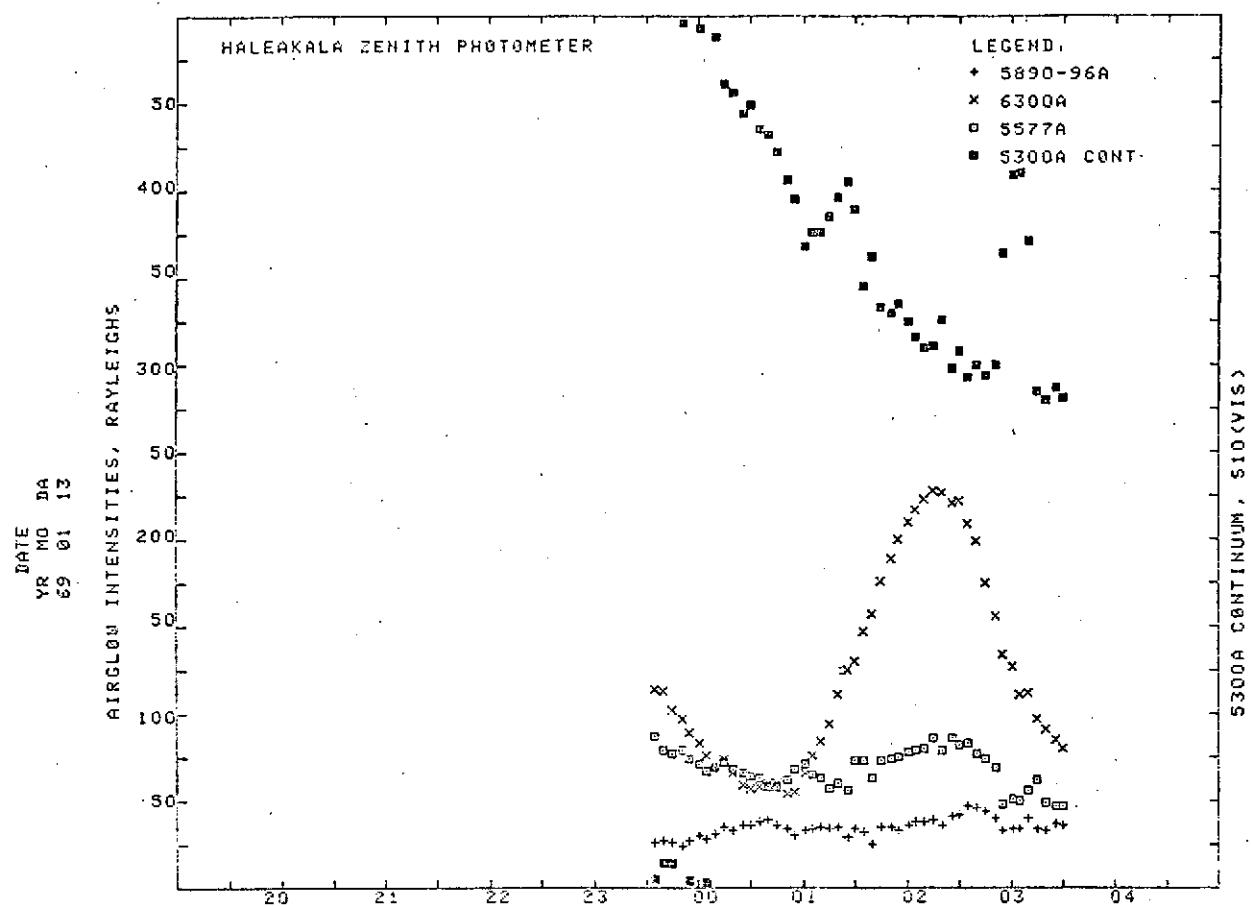


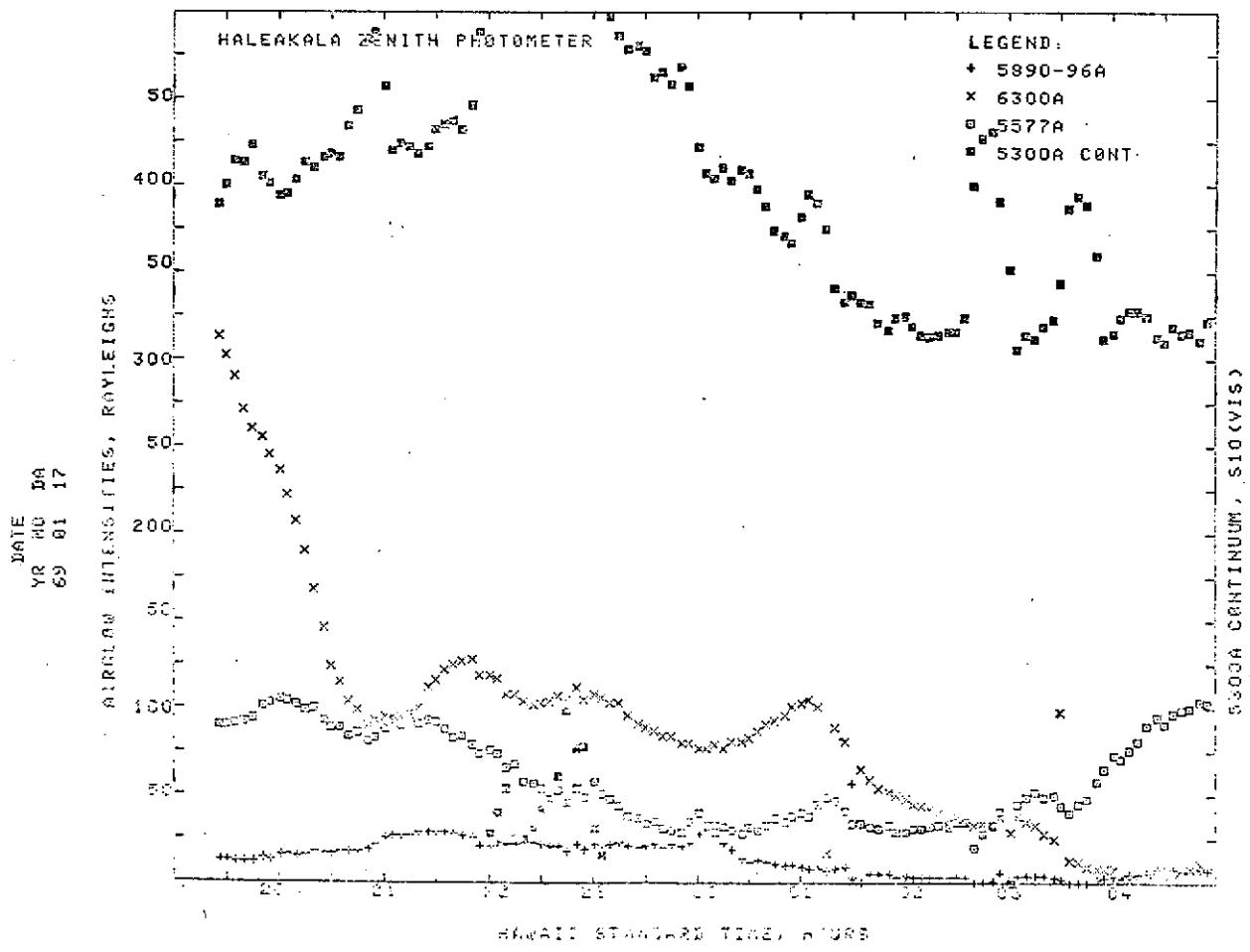
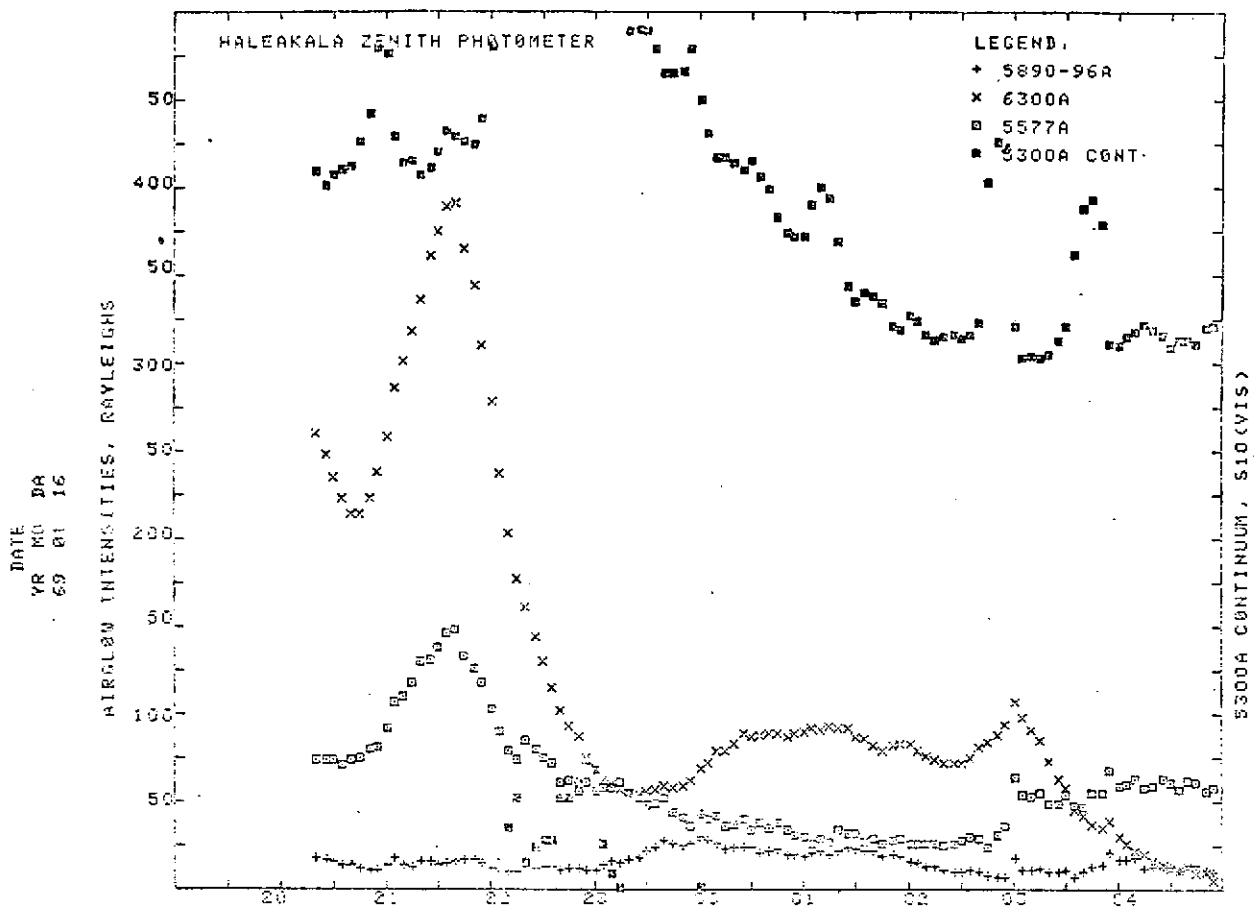


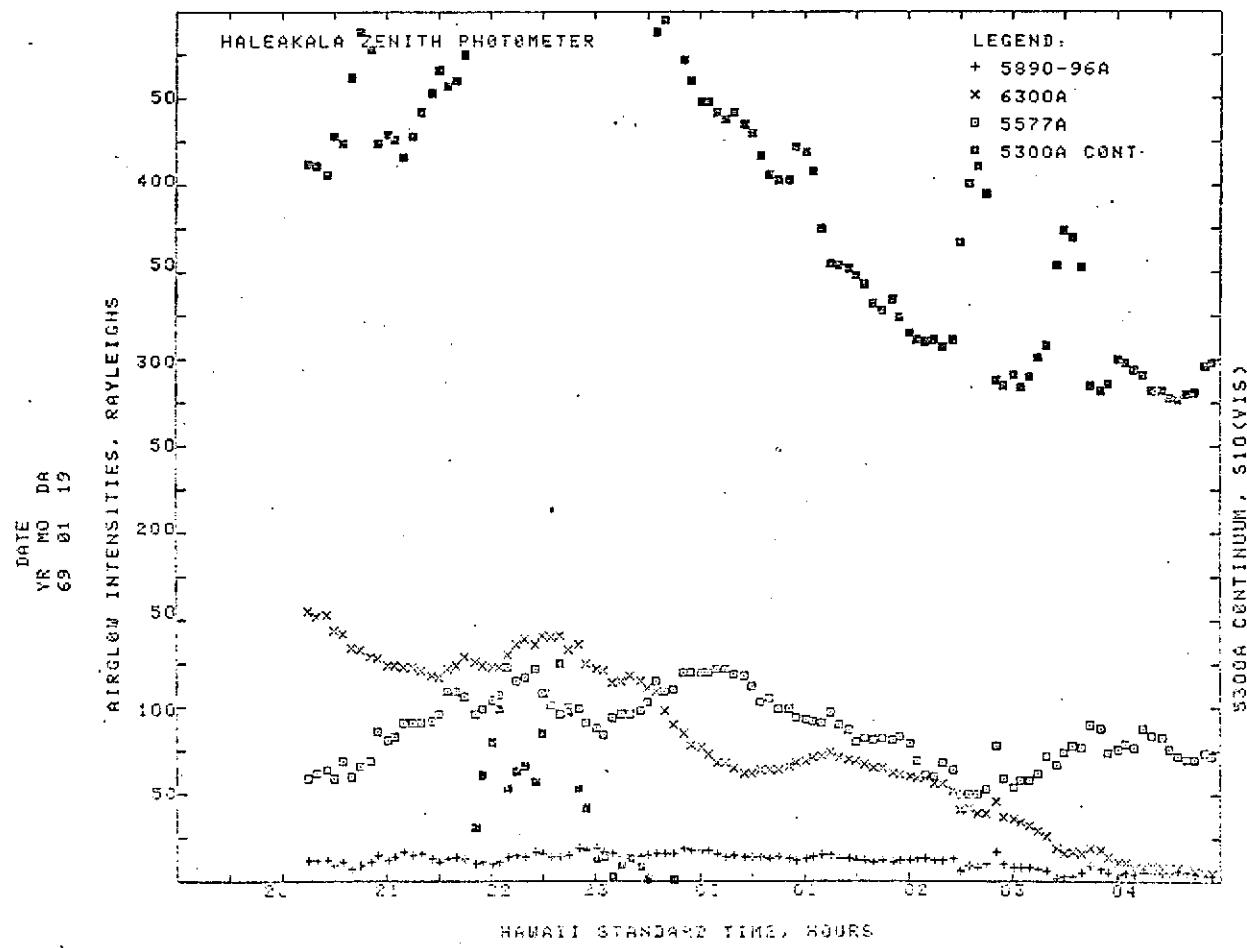
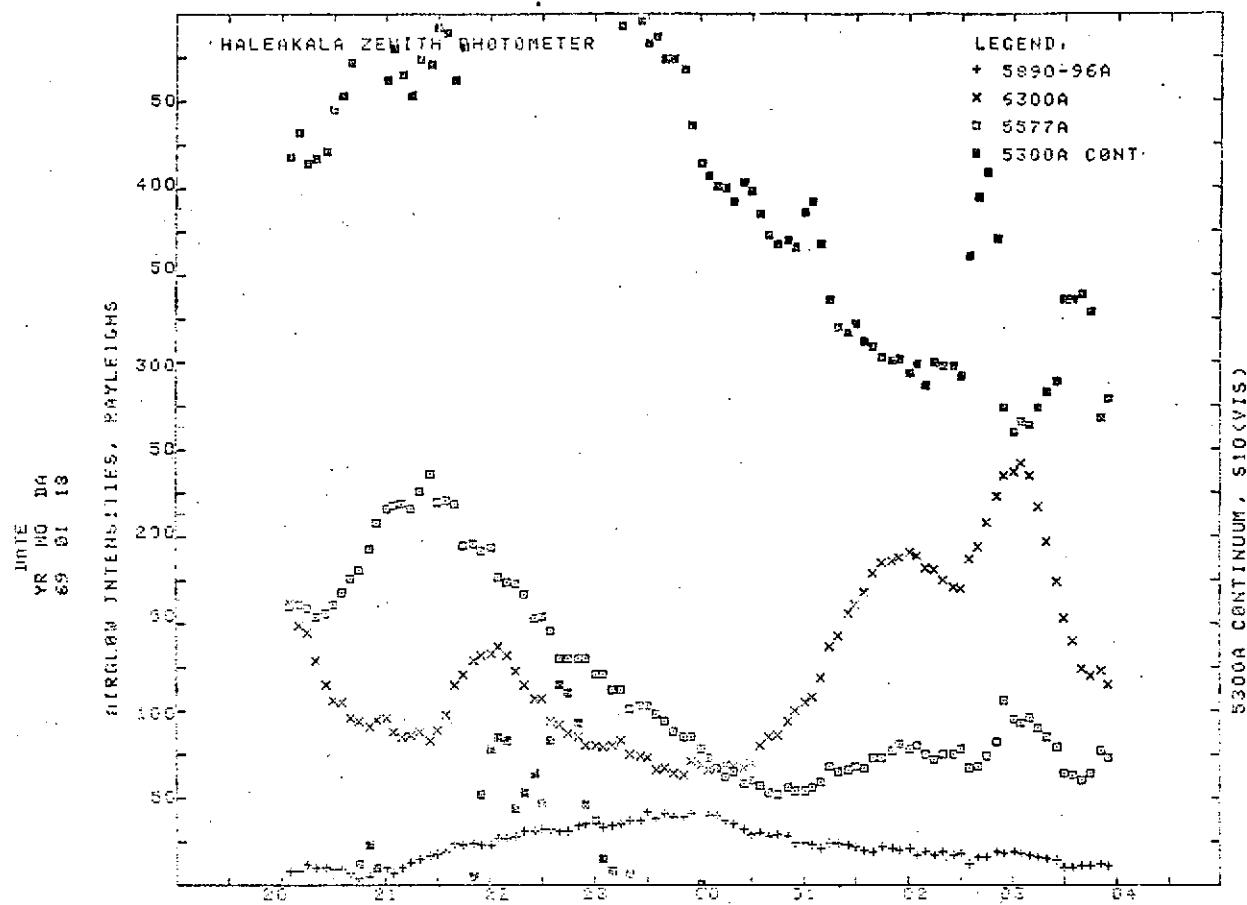




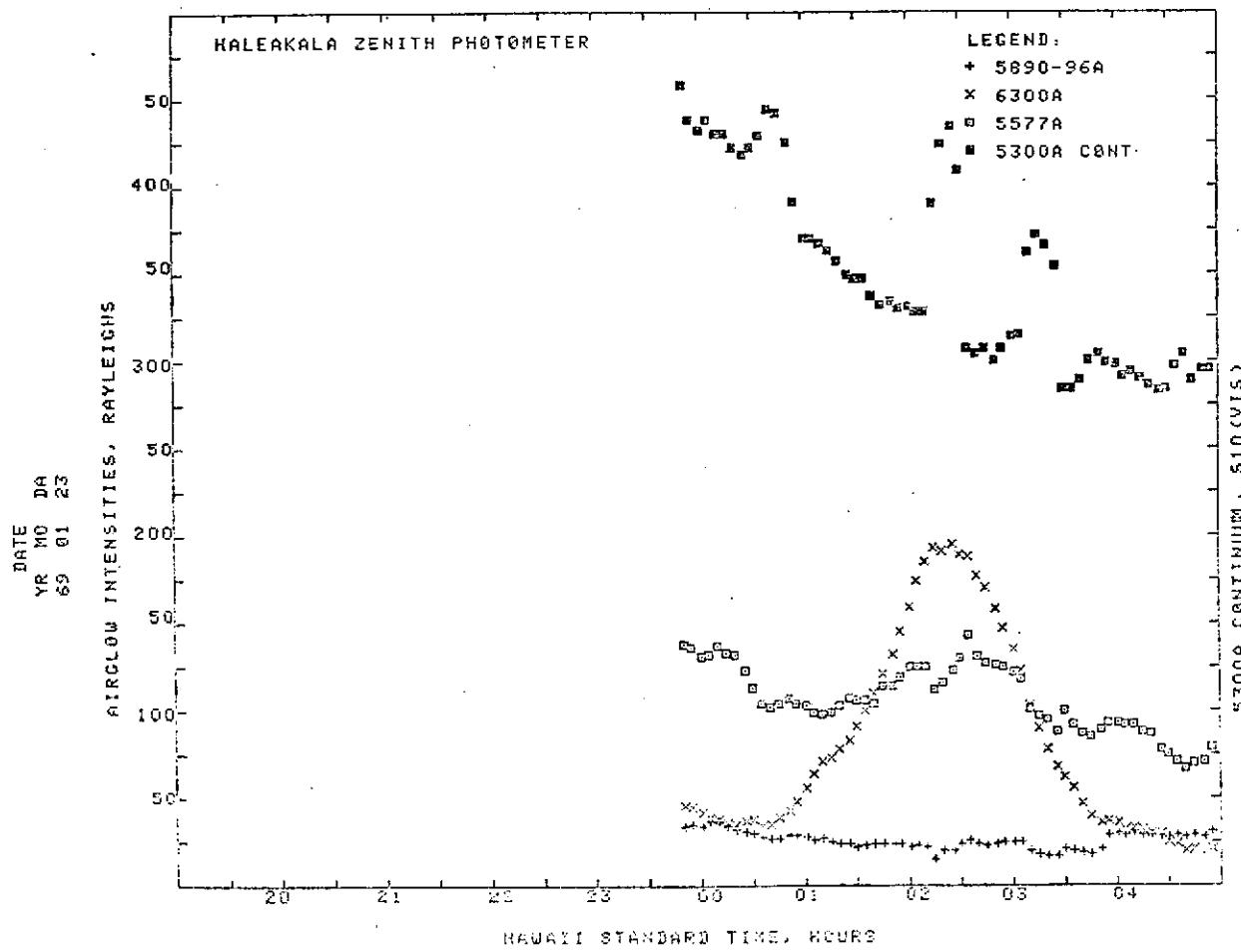
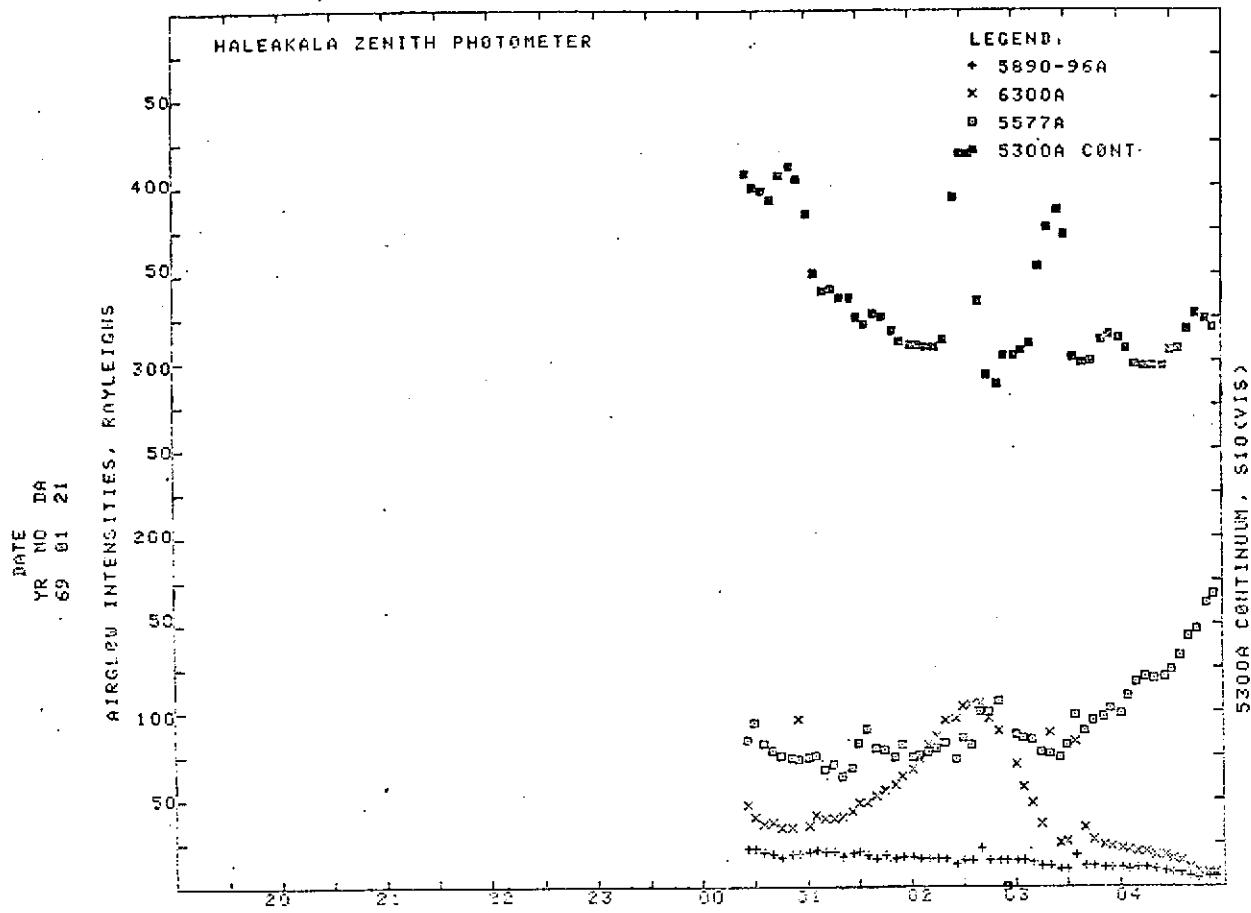








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